

MANUAL FOR ALARMS AND INFORMATION MESSAGES

# **GOLD** RX/PX/CX/SD

## Generation F

Applicable to Program Version 1.27 and newer versions



## Content

Innehåll

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The document was originally written in Swedish.

# 1. Alarm Descriptions with Factory Settings

| Alarm No.                                       | Alarm text<br>Function | Priority  | Stop                     | Delay                              | Resetting                   |   |
|---|------------------------|---|--------------------------|------------------------------------|-----------------------------|---|
|   |                        | 0 = Blocked<br>A = A alarm<br>B = B alarm   | 0 = In oper.<br>1 = Stop | s = second<br>m = minute<br>h=hour | 0 = manual<br>1 = automatic |   |
| Display   | Comm.                  |   |                          |                                    |                             |   |
| <b>Alarm group 1: Fire alarm</b>                |                        |   |                          |                                    |                             |   |
| 1:1   | 1                      | EXTERNAL FIRE ALARM NO. 1 TRIPPED<br>For the fire protection function connected to terminals 6-7.   | A <sup>1)</sup>          | 1                                  | 3 s                         | 0 |
| 1:2   | 2                      | EXTERNAL FIRE ALARM NO. 2 TRIPPED<br>For the fire protection function connected to terminals 8-9.   | A <sup>1)</sup>          | 1                                  | 3 s                         | 0 |
| 1:3   | 3                      | INTERNAL FIRE ALARM TRIPPED<br>The air handling unit's supply air sensor measures more than 70 °C and/or its extract air temperature sensor measures more than 50 °C.<br>The function must be activated manually. | A <sup>1)</sup>          | 1                                  | 3 s                         | 0 |
| <b>Alarm group 2: External alarm</b>            |                        |   |                          |                                    |                             |   |
| 2:1   | 16                     | EXTERNAL ALARM NO. 1 TRIPPED<br>External alarm, connected to control unit terminals 10-11, has tripped..  | A                        | 1 <sup>3)</sup>                    | 1 s <sup>2)</sup>           | 0 |
| 2:2   | 17                     | EXTERNAL ALARM NO. 2 TRIPPED<br>External alarm, connected to control unit terminals 12-13, has tripped..  | B                        | 0 <sup>3)</sup>                    | 1 s <sup>2)</sup>           | 0 |
| <b>Alarm group 3: Pre-heating</b>               |                        |   |                          |                                    |                             |   |
| 3:1   | 31                     | PRE-HEAT, I/O MODULE NO. 9 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 9 for pre-heating.  | A                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |
| 3:2   | 32                     | PRE-HEAT, OVERHEATING PROTECTION FOR ELECTRIC AIR HEATER TRIPPED<br>The overheating protection, electric air heater, has tripped.   | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 10 s                        | 0 |
| 3:3   | 33                     | PRE-HEAT, FROST GUARD TRIPPED<br>Frost guard temperature sensor measures temperature less than preset alarm limit.<br>Factory setting: 7 °C.  | A <sup>1)</sup>          | 1                                  | 5 s                         | 0 |
| 3:4   | 34                     | PRE-HEAT, FROST GUARD TEMPERATURE SENSOR DEFECTIVE<br>Frost guard temperature sensor is defective or is not connected.  | A <sup>1)</sup>          | 1                                  | 3 s                         | 1 |
| 3:5   | 35                     | PRE-HEAT, TEMPERATURE SENSOR DEFECTIVE<br>Sensor is defective or is not connected.  | A                        | 0 <sup>3)</sup>                    | 3 s                         | 1 |
| 3:6   | 36                     | PRE-HEAT, VALVE MONITORING TRIPPED<br>Valve actuator, air heater for water is defective.  | A                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| 3:7   | 37                     | PRE-HEAT, TEMPERATURE BELOW SET POINT ALARM LIMIT<br>Temperature is below preset set point longer than 20 minutes.  | A                        | 0 <sup>3)</sup>                    | 20 m                        | 0 |
| 3:8   | 38                     | PRE-HEAT, ALARM INPUT TRIPPED<br>Alarm input pre-heat has tripped.  | A                        | 0                                  | 20 s                        | 0 |
| <b>Alarm group 4: Extra regulation sequence</b> |                        |   |                          |                                    |                             |   |
| 4:1   | 46                     | EXTRA REGULATION SEQUENCE 1, I/O-MODULE No E COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. E for extra regulation sequence.              | A                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |

| Alarm No. |       | Alarm text<br>Function   | Priority        | Stop            | Delay      | Resetting     |
|-----------|-------|--|-----------------|-----------------|------------|---------------|
| Display   | Comm. |  | 0 = Blocked     | 0 = In oper.    | s = second | 0 = manual    |
|           |       |  | A = A alarm     | 1 = Stop        | m = minute | 1 = automatic |
|           |       |  | B = B alarm     |                 | h=hour     |               |
| 4:2       | 47    | EXTRA REGULATION SEQUENCE 1, OVERHEATING PROTECTION FOR ELECTRIC AIR HEATER TRIPPED<br>Overheating protection, electric air heater, has tripped.   | A <sup>1)</sup> | 0 <sup>3)</sup> | 10 s       | 0             |
| 4:3       | 48    | EXTRA REGULATION SEQUENCE 1, FROST GUARD TRIPPED<br>Frost guard temperature sensor measures temperature less than preset alarm limit.<br>Factory setting: 7 °C.  | A <sup>1)</sup> | 1               | 5 s        | 0             |
| 4:4       | 49    | EXTRA REGULATION SEQUENCE 1, FROST GUARD TEMPERATURE SENSOR DEFECTIVE<br>Frost guard temperature sensor is defective or is not connected.  | A <sup>1)</sup> | 1               | 3 s        | 1             |
| 4:5       | 50    | EXTRA REGULATION SEQUENCE 1, VALVE MONITORING TRIPPED<br>Valve actuator, air heater for water, is defective.   | B               | 0 <sup>3)</sup> | 10 m       | 0             |
| 4:6       | 51    | EXTRA REGULATION SEQUENCE 1, ALARM INPUT TRIPPED<br>Alarm input extra regulation sequence has tripped.   | A               | 0               | 20 s       | 0             |
| 4:7       | 52    | EXTRA REGULATION SEQUENCE 1, TEMPERATURE PROTECTION VIA COMMUNICATION, COMMUNICATION ERROR<br>The air handling unit's control unit is not receiving any temperature reading via the external communication interface within the preset time limit. | B               | 0               | 5 m        | 1             |
| 4:8       | 53    | EXTRA REGULATION SEQUENCE 1, COMBI COIL SENSOR DEFECTIVE<br>Temperature sensor to the combi coil is defective or not connected.  | A               | 1               | 3 s        | 1             |
| 4:9       | 54    | EXTRA REGULATION SEQUENCE 2, I/O-MODULE No F COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. E for extra regulation sequence.   | A               | 0 <sup>3)</sup> | 10 s       | 1             |
| 4:10      | 55    | EXTRA REGULATION SEQUENCE 2, OVERHEATING PROTECTION FOR ELECTRIC AIR HEATER TRIPPED<br>Overheating protection, electric air heater, has tripped.   | A <sup>1)</sup> | 0 <sup>3)</sup> | 10 s       | 0             |
| 4:11      | 56    | EXTRA REGULATION SEQUENCE 2, FROST GUARD TRIPPED<br>Frost guard temperature sensor measures temperature less than preset alarm limit.<br>Factory setting: 7 °C.  | A <sup>1)</sup> | 1               | 5 s        | 0             |
| 4:12      | 57    | EXTRA REGULATION SEQUENCE 2, FROST GUARD TEMPERATURE SENSOR DEFECTIVE<br>Frost guard temperature sensor is defective or is not connected.  | A <sup>1)</sup> | 1               | 3 s        | 1             |
| 4:13      | 58    | EXTRA REGULATION SEQUENCE 2, VALVE MONITORING TRIPPED<br>Valve actuator, air heater for water, is defective.   | B               | 0 <sup>3)</sup> | 10 m       | 0             |
| 4:14      | 59    | EXTRA REGULATION SEQUENCE 2, ALARM INPUT TRIPPED<br>Alarm input extra regulation sequence has tripped.   | A               | 0               | 20 s       | 0             |
| 4:15      | 60    | EXTRA REGULATION SEQUENCE 2, COMBI COIL SENSOR DEFECTIVE<br>Temperature sensor to the combi coil is defective or not connected.  | A               | 1               | 3 s        | 1             |

| Alarm No.                                    |       | Alarm text<br>Function   | Priority        | Stop            | Delay      | Resetting     |
|--|-------|--|-----------------|-----------------|------------|---------------|
| Display                                      | Comm. |  | 0 = Blocked     | 0 = In oper.    | s = second | 0 = manual    |
|  |       |  | A = A alarm     | 1 = Stop        | m = minute | 1 = automatic |
|  |       |  | B = B alarm     |                 | h=hour     |               |
| <b>Alarm group 5: Reheating</b>              |       |  |                 |                 |            |               |
| 5:1  | 61    | REHEAT, OVERHEATING PROTECTION FOR ELECTRIC AIR HEATER TRIPPED<br>The overheating protection, electric air heater, has tripped.  | A <sup>1)</sup> | 0 <sup>3)</sup> | 10 s       | 0             |
| 5:2  | 62    | REHEAT, FROST GUARD TRIPPED<br>Frost guard temperature sensor measures temperature less than preset alarm limit.<br>Factory setting: 7 °C.   | A <sup>1)</sup> | 1               | 5 s        | 0             |
| 5:3  | 63    | REHEAT, FROST GUARD TEMPERATURE SENSOR DEFECTIVE<br>Frost guard temperature sensor is defective or is not connected.   | A <sup>1)</sup> | 1               | 3 s        | 1             |
| 5:4  | 64    | REHEAT, VALVE MONITORING TRIPPED<br>Valve actuator, air heater for water is defective.   | B               | 0 <sup>3)</sup> | 10 m       | 0             |
| 5:5  | 65    | RE-HEATING, ALARM INPUT TRIPPED<br>Alarm input reheating has tripped.  | A               | 0               | 20 s       | 0             |
| <b>Alarm group 6: Xzone I/O-module no. A</b> |       |  |                 |                 |            |               |
| 6:1  | 76    | Xzone, I/O-MODULE NO. A COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. A for Xzone.  | A               | 0 <sup>3)</sup> | 10 s       | 1             |
| 6:2  | 77    | Xzone, OVERHEATING PROTECTION FOR ELECTRIC AIR HEATER TRIPPED<br>The overheating protection, electric air heater, has tripped.   | A <sup>1)</sup> | 0 <sup>3)</sup> | 10 s       | 0             |
| 6:3  | 78    | Xzone, FROST GUARD TRIPPED<br>Frost guard temperature sensor measures temperature less than preset alarm limit.<br>Factory setting: 7 °C.  | A <sup>1)</sup> | 1               | 5 s        | 0             |
| 6:4  | 79    | Xzone, FROST GUARD TEMPERATURE SENSOR DEFECTIVE<br>Frost guard temperature sensor is defective or is not connected.  | A <sup>1)</sup> | 1               | 3 s        | 1             |
| 6:5  | 80    | Xzone, SUPPLY AIR TEMPERATURE SENSOR DEFECTIVE<br>Supply air sensor is defective or is not connected.  | A               | 1 <sup>3)</sup> | 3 s        | 1             |
| 6:6  | 81    | Xzone, HEATING VALVE MONITORING TRIPPED<br>Valve actuator, air heater for water is defective.  | B               | 0 <sup>3)</sup> | 10 m       | 0             |
| 6:7  | 82    | Xzone, SUPPLY AIR TEMPERATURE BELOW SET POINT ALARM LIMIT<br>The supply air temperature is below the preset set point (ERS and Supply air regulation) or Min SA temp (Extract air regulation) longer than 20 minutes.  | A               | 0 <sup>3)</sup> | 20 m       | 0             |
| 6:8  | 83    | Xzone, SUPPLY AIR TEMPERATURE ABOVE SET POINT ALARM LIMIT<br>The supply air temperature is above the preset set point (ERS and Supply air regulation) or Max. SA temp (Extract air regulation) longer than 20 minutes. | B               | 0 <sup>3)</sup> | 20 m       | 0             |
| 6:9  | 84    | Xzone, HEAT, ALARM INPUT TRIPPED<br>Alarm input Xzone heat has tripped.  | A               | 0               | 20 s       | 0             |
| <b>Alarm group 7: Xzone I/O-module no. B</b> |       |  |                 |                 |            |               |
| 7:1  | 91    | Xzone, I/O-MODULE NO. B COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. B for Xzone.  | A               | 0 <sup>3)</sup> | 10 s       | 1             |

| Alarm No.   | Alarm text<br>Function | Priority   | Stop                     | Delay                              | Resetting                   |   |
|---|------------------------|--|--------------------------|------------------------------------|-----------------------------|---|
|   |                        | 0 = Blocked<br>A = A alarm<br>B = B alarm  | 0 = In oper.<br>1 = Stop | s = second<br>m = minute<br>h=hour | 0 = manual<br>1 = automatic |   |
| Display   | Comm.                  |  |                          |                                    |                             |   |
| 7:2   | 92                     | Xzone, EXTRACT AIR TEMPERATURE SENSOR DEFECTIVE<br>Extract air sensor is defective or is not connected.  | A                        | 1 <sup>3)</sup>                    | 3 s                         | 1 |
| 7:3   | 93                     | Xzone, COOLING VALVE MONITORING TRIPPED<br>Valve actuator, air cooler for water is defective.  | B                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| 7:4   | 94                     | Xzone, EXTRACT AIR TEMPERATURE SENSOR BELOW SET POINT ALARM LIMIT<br>The extract air temperature is below preset alarm limit for more than 20 minutes.   | A                        | 0 <sup>3)</sup>                    | 20 m                        | 0 |
| 7:5   | 95                     | Xzone, COOL, ALARM INPUT 1 TRIPPED<br>Alarm input 1 Xzone cool has tripped.  | A                        | 0                                  | 20 s                        | 0 |
| 7:6   | 96                     | Xzone, COOL, ALARM INPUT 2 TRIPPED<br>Alarm input 2 Xzone cool has tripped.  | A                        | 0                                  | 20 s                        | 0 |
| <b>Alarm group 8: Cooling</b>                           |                        |  |                          |                                    |                             |   |
| 8:5   | 110                    | COOLING, VALVE MONITORING TRIPPED<br>Valve actuator, air cooler, is defective.   | B                        | 0 <sup>3)</sup>                    | 10 s                        | 0 |
| 8:6   | 111                    | COOLING ALARM INPUT 1 TRIPPED<br>Alarm input 1 cooling has tripped.  | A                        | 0                                  | 20 s                        | 0 |
| 8:7   | 112                    | COOLING ALARM INPUT 2 TRIPPED<br>Alarm input 2 cooling has tripped.  | A                        | 0                                  | 20 s                        | 0 |
| <b>Alarm group 9: Spare</b>                             |                        |  |                          |                                    |                             |   |
| <b>Alarm group 10: AHU, internal temperature sensor</b> |                        |  |                          |                                    |                             |   |
| 10:1  | 136                    | SUPPLY AIR TEMPERATURE SENSOR DEFECTIVE<br>Supply air sensor is defective or is not connected.   | A                        | 1 <sup>3)</sup>                    | 3 s                         | 1 |
| 10:2  | 137                    | SUPPLY AIR TEMPERATURE SENSOR FOR DENSITY COMPENSATION DEFECTIVE<br>Supply air sensor in the supply air fan intake cannot establish correct communication or shows an incorrect value.   | B                        | 0 <sup>3)</sup>                    | 3 s                         | 1 |
| 10:3  | 138                    | EXTRACT AIR TEMPERATURE SENSOR DEFECTIVE<br>Extract air sensor is defective or is not connected.   | A                        | 1 <sup>3)</sup>                    | 3 s                         | 1 |
| 10:4  | 139                    | EXTRACT AIR TEMPERATURE SENSOR FOR DENSITY COMPENSATION DEFECTIVE (GOLD RX/PX/CX)<br>Temperature sensor in extract air fan intake cannot establish correct communication or shows incorrect value.<br>GOLD RX<br>Exhaust air regulation has been selected, but the temperature sensor in the exhaust air is defective or is not connected. | B                        | 0 <sup>3)</sup>                    | 3 s                         | 1 |
| 10:5  | 140                    | EXTRACT AIR TEMPERATURE SENSOR FOR HEAT EXCHANGER DEFROSTING DEFECTIVE<br>Temperature sensor, for heat exchanger defrosting is defective.  | A                        | 1 <sup>3)</sup>                    | 10 s                        | 1 |
| 10:6  | 141                    | EXTRACT AIR TEMPERATURE SENSOR FOR DENSITY COMPENSATION IN SD AHU DEFECTIVE<br>Temperature sensor in extract air fan intake cannot establish correct communication or shows incorrect value.   | A                        | 1 <sup>3)</sup>                    | 10 s                        | 1 |
| 10:7  | 142                    | EXTRACT AIR DUCT TEMPERATURE SENSOR DEFECTIVE<br>The temperature sensor in the extract air duct is defective or is not connected.  | A                        | 1 <sup>3)</sup>                    | 10 s                        | 1 |

| Alarm No.<br>Display                                | Comm. | Alarm text<br>Function   | Priority    | Stop            | Delay             | Resetting     |
|---|-------|--|-------------|-----------------|-------------------|---------------|
|   |       |  | 0 = Blocked | 0 = In oper.    | s = second        | 0 = manual    |
|   |       |  | A = A alarm | 1 = Stop        | m = minute        | 1 = automatic |
|   |       |  | B = B alarm |                 | h=hour            |               |
| 10:10   | 145   | OUTDOOR AIR TEMPERATURE SENSOR DEFECTIVE (GOLD SD)<br>Outdoor temperature sensor is defective or is not connected.   | B           | 0 <sup>3)</sup> | 3 s               | 1             |
| <b>Alarm group 11: External temperature sensors</b> |       |  |             |                 |                   |               |
| 11:1  | 151   | ROOM TEMPERATURE SENSOR NO. 1 DEFECTIVE<br>Room temperature sensor 1 is defective or is not connected.   | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:2  | 152   | ROOM TEMPERATURE SENSOR NO. 2 DEFECTIVE<br>Room temperature sensor 2 is defective or is not connected.   | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:3  | 153   | ROOM TEMPERATURE SENSOR NO. 3 DEFECTIVE<br>Room temperature sensor 3 is defective or is not connected.   | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:4  | 154   | ROOM TEMPERATURE SENSOR NO. 4 DEFECTIVE<br>Room temperature sensor 4 is defective or is not connected.   | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:5  | 155   | Xzone, ROOM TEMPERATURE SENSOR NO. 5 DEFECTIVE<br>Xzone room temperature sensor 5 is defective or is not connected.  | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:6  | 156   | Xzone, ROOM TEMPERATURE SENSOR NO. 6 DEFECTIVE<br>Xzone room temperature sensor 6 is defective or is not connected.  | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:7  | 157   | Xzone, ROOM TEMPERATURE SENSOR NO. 7 DEFECTIVE<br>Xzone room temperature sensor 7 is defective or is not connected.  | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:8  | 158   | Xzone, ROOM TEMPERATURE SENSOR NO. 8 DEFECTIVE<br>Xzone room temperature sensor 8 is defective or is not connected.  | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:9  | 159   | OUTDOOR TEMPERATURE SENSOR NO. A DEFECTIVE<br>Outdoor temperature sensor A is defective or is not connected.   | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:10   | 160   | OUTDOOR TEMPERATURE SENSOR NO. B DEFECTIVE<br>Outdoor temperature sensor B is defective or is not connected.   | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:11   | 161   | OUTDOOR TEMPERATURE SENSOR NO. C DEFECTIVE<br>Outdoor temperature sensor C is defective or is not connected.   | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:12   | 162   | OUTDOOR TEMPERATURE SENSOR NO. D DEFECTIVE<br>Outdoor temperature sensor D is defective or is not connected.   | B           | 0 <sup>3)</sup> | 10 s              | 1             |
| 11:13   | 163   | ROOM TEMPERATURE VIA COMMUNICATION, COMMUNICATION ERROR<br>The air handling unit's control unit is not receiving any temperature reading via the external communication interface within the preset time limit.        | B           | 0 <sup>3)</sup> | 5 m <sup>2)</sup> | 1             |
| 11:14   | 164   | Xzone, ROOM TEMPERATURE VIA COMMUNICATION, COMMUNICATION ERROR<br>The air handling unit's control unit is not receiving any temperature reading via the external communication interface within the preset time limit. | B           | 0 <sup>3)</sup> | 5 m <sup>2)</sup> | 1             |

| Alarm No.                                     |       | Alarm text<br>Function  | Priority    | Stop            | Delay              | Resetting     |
|---|-------|---|-------------|-----------------|--------------------|---------------|
| Display                                       | Comm. |   | 0 = Blocked | 0 = In oper.    | s = second         | 0 = manual    |
|   |       |   | A = A alarm | 1 = Stop        | m = minute         | 1 = automatic |
|   |       |   | B = B alarm |                 | h=hour             |               |
| 11:15   | 165   | OUTDOOR TEMPERATURE VIA COMMUNICATION,<br>COMMUNICATION ERROR<br>The air handling unit's control unit is not receiving any temperature reading via the external communication interface within the preset time limit.   | B           | 0 <sup>3)</sup> | 5 m <sup>2)</sup>  | 1             |
| <b>Alarm group 12: AHU, temperature diff.</b> |       |   |             |                 |                    |               |
| 12:1  | 166   | SUPPLY AIR TEMPERATURE BELOW SET POINT ALARM LIMIT<br>The supply air temperature is lower than the preset set point (ERS, ORS, ORE and Supply air regulation) or has deviated from the supply air controller's current set point (Extract air regulation) longer than 20 minutes. | A           | 1 <sup>3)</sup> | 20 m               | 0             |
| 12:2  | 167   | SUPPLY AIR TEMPERATURE ABOVE SET POINT ALARM LIMIT<br>The supply air temperature is above the preset set point (ERS, ORS, ORE and Supply air regulation) or has deviated from the supply air controller's current set point (Extract air regulation) longer than 20 minutes.      | B           | 0 <sup>3)</sup> | 20 m               | 0             |
| 12:6  | 171   | EXTRACT AIR TEMPERATURE BELOW ALARM LIMIT<br>The extract air temperature is below preset alarm limit for more than 20 minutes.  | A           | 1 <sup>3)</sup> | 20 m               | 0             |
| 12:11   | 176   | TEMPERATURE PROTECTION BELOW ALARM LIMIT<br>The temperature protection reading is below preset alarm limit.   | A           | 1 <sup>3)</sup> | 30 s <sup>2)</sup> | 0             |
| 12:13   | 178   | HEAT EXCHANGER EFFICIENCY BELOW ALARM LIMIT<br>The heat exchanger's efficiency is below the preset alarm limit for more than 2 minutes.   | B           | 0 <sup>3)</sup> | 2 hrs.             | 0             |
| <b>Alarm group 13: Humidity/VOC</b>           |       |   |             |                 |                    |               |
| 13:1  | 181   | HUMIDIFICATION, I/O MODULE NO. 4 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 4 for humidity.   | B           | 0 <sup>3)</sup> | 10 s               | 1             |
| 13:2  | 182   | SUPPLY AIR HUMIDITY SENSOR DEFECTIVE<br>The humidity sensor in the supply air duct is defective or is not connected.  | A           | 0 <sup>3)</sup> | 10 s               | 1             |
| 13:3  | 184   | EXTRACT AIR HUMIDITY SENSOR DEFECTIVE<br>The humidity sensor in the extract air duct is defective or is not connected.  | A           | 0 <sup>3)</sup> | 10 s               | 1             |
| 13:4  | 184   | EXHAUST AIR HUMIDITY SENSOR DEFECTIVE<br>The humidity sensor in the exhaust air duct is defective or is not connected.  | A           | 0 <sup>3)</sup> | 10 sec.            | 1             |
| 13:9  | 189   | HUMIDIFIER, ALARM OUTPUT TRIPPED<br>The humidifier has tripped alarm output.  | A           | 0 <sup>3)</sup> | 10 s               | 0             |
| 13:11   | 191   | VOC SENSOR COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the VOC sensor.  | B           | 0 <sup>3)</sup> | 10 s               | 1             |
| 13:12   | 192   | VOC SENSOR, INTERNAL COMMUNICATION ERROR<br>The air handling unit's control unit cannot achieve correct communication with the VOC sensor.  | B           | 0 <sup>3)</sup> | 60 s               | 1             |
| 13:13   | 193   | VOC SENSOR, INTERNAL ERROR<br>VOC sensor defective.   | B           | 0 <sup>3)</sup> | 60 s               | 1             |
| 13:14   | 194   | VOC SENSOR, LEVEL BELOW/ABOVE SET POINT ALARM LIMIT<br>The VOC sensor has read a level below or above the set point alarm limit for more than 60 seconds.   | B           | 0 <sup>3)</sup> | 60 s               | 1             |



| Alarm No.                                   |       | Alarm text<br>Function  | Priority    | Stop             | Delay      | Resetting     |
|---|-------|---|-------------|------------------|------------|---------------|
| Display                                     | Comm. |   | 0 = Blocked | 0 = In oper.     | s = second | 0 = manual    |
|   |       |   | A = A alarm | 1 = Stop         | m = minute | 1 = automatic |
|   |       |   | B = B alarm |                  | h=hour     |               |
| <b>Alarm group 14: Spare</b>                |       |   |             |                  |            |               |
| <b>Alarm group 15: Plate heat exchanger</b> |       |   |             |                  |            |               |
| 15:1  | 211   | PLATE HEAT EXCHANGER, I/O-MODULE NO. 2 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 2 for plate heat exchanger.         | A           | 1 <sup>3/4</sup> | 10 s       | 1             |
| 15:2  | 212   | PLATE HEAT EXCHANGER, TEMPERATURE SENSOR NO. 1 DEFECTIVE<br>Temperature sensor 1 for frost guard in heat exchanger cube is defective or is not connected.   | A           | 1 <sup>3/4</sup> | 3 s        | 1             |
| 15:3  | 213   | PLATE HEAT EXCHANGER, TEMPERATURE SENSOR NO. 2 DEFECTIVE<br>Temperature sensor 2 for frost guard in heat exchanger cube is defective or is not connected.   | A           | 1 <sup>3/4</sup> | 3 s        | 1             |
| 15:4  | 214   | PLATE HEAT EXCHANGER, DAMPER MONITORING TRIPPED<br>Damper actuator for plate heat exchanger is defective.   | A           | 0 <sup>3/4</sup> | 10 m       | 0             |
| 15:7  | 217   | PLATE HEAT EXCHANGER, I/O-MODULE NO. 3 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 3 for the plate heat exchanger.     | A           | 1 <sup>3/4</sup> | 10 s       | 1             |
| 15:8  | 218   | PLATE HEAT EXCHANGER, BYPASS DAMPER MONITORING TRIPPED<br>The bypass damper monitoring function of the plate heat exchanger has tripped.  | A           | 0 <sup>3/4</sup> | 10 m       | 0             |
| 15:9  | 219   | PLATE HEAT EXCHANGER, DAMPER NO. 1 MONITORING TRIPPED<br>The section damper 1 monitoring function of the plate heat exchanger has tripped.  | A           | 0 <sup>3/4</sup> | 10 m       | 0             |
| 15:10                                       | 220   | PLATE HEAT EXCHANGER, DAMPER NO. 2 MONITORING TRIPPED<br>The section damper 2 monitoring function of the plate heat exchanger has tripped.  | A           | 0 <sup>3/4</sup> | 10 m       | 0             |
| 15:11                                       | 221   | PLATE HEAT EXCHANGER, I/O-MODULE NO. 3 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 3 for the plate heat exchanger.     | A           | 1 <sup>3/4</sup> | 10 s       | 1             |
| 15:12                                       | 222   | PLATE HEAT EXCHANGER, BYPASS DAMPER MONITORING TRIPPED<br>The bypass damper monitoring function of the plate heat exchanger has tripped.  | A           | 0 <sup>3/4</sup> | 10 m       | 0             |
| 15:13                                       | 223   | PLATE HEAT EXCHANGER, COUNTER-FLOW, DEFROSTING PRESSURE OVER ALARM LIMIT<br>There has been a continuous need for full defrosting for 2 hours.   | B           | 1 <sup>3/4</sup> | 2 h        | 0             |
| 15:14                                       | 224   | PLATE HEAT EXCHANGER, DEFROSTING SENSOR NO. C COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with defrosting sensor C for the heat exchanger. | B           | 0                | 10 m       | 1             |
| 15:15                                       | 225   | PLATE HEAT EXCHANGER, DEFROSTING PRESSURE OVER ALARM LIMIT<br>The need for defrosting has been over 95% continuously for 144 minutes.   | B           | 1                | 2.4 h      | 0             |

| Alarm No.                                    |       | Alarm text<br>Function  | Priority        | Stop             | Delay      | Resetting     |
|--|-------|---|-----------------|------------------|------------|---------------|
| Display                                      | Comm. |   | 0 = Blocked     | 0 = In oper.     | s = second | 0 = manual    |
|  |       |   | A = A alarm     | 1 = Stop         | m = minute | 1 = automatic |
|  |       |   | B = B alarm     |                  | h=hour     |               |
| <b>Alarm group 16: Coil heat exchangers</b>  |       |   |                 |                  |            |               |
| 16:1   | 226   | COIL HEAT EXCHANGER, I/O-MODULE NO. 1 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 1 for coil heat exchanger.   | A               | 1 <sup>3/4</sup> | 10 s       | 1             |
| 16:2   | 227   | COIL HEAT EXCHANGER, TEMPERATURE SENSOR DEFECTIVE<br>The temperature sensor on the coil heat exchanger's pipework package for the frost guard is defective or is not connected.   | A               | 1 <sup>3/4</sup> | 3 s        | 1             |
| 16:3   | 228   | COIL HEAT EXCHANGER, VALVE MONITORING TRIPPED<br>Valve actuator of the coil heat exchanger is defective.  | A               | 0 <sup>3/4</sup> | 10 m       | 0             |
| 16:4   | 229   | COIL HEAT EXCHANGER, PUMP MONITORING TRIPPED<br>No in-service indication from the pump is obtained.   | A               | 1 <sup>3/4</sup> | 20 s       | 0             |
| 16:5   | 230   | COIL HEAT EXCHANGER, I/O-MODULE NO. C COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. C for coil heat exchanger.   | A               | 1                | 10 s       | 1             |
| 16:6   | 231   | COIL HEAT EXCHANGER, PRESSURE SENSOR DEFECTIVE<br>Pressure sensor for the coil heat exchanger is defective or is not connected.   | A               | 1                | 10 m       | 1             |
| 16:7   | 232   | COIL HEAT EXCHANGER, LOW PRESSURE IN HYDRONIC CIRCUIT<br>Pressure gauge registers a too low pressure.   | A               | 1                | 5 m        | 0             |
| 16:8   | 233   | COIL HEAT EXCHANGER, PRESSURE BELOW ALARM LIMIT<br>Fluid pressure sensor registers a too low pressure.  | A               | 1                | 10 s       | 1             |
| <b>Alarm group 17: Rotary heat exchanger</b> |       |   |                 |                  |            |               |
| 17:1   | 241   | ROTARY HEAT EXCHANGER, MOTOR CONTROLLER COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the heat exchanger motor controller.  | A               | 1 <sup>3/4</sup> | 10 s       | 1             |
| 17:2   | 242   | ROTARY HEAT EXCHANGER, DEFROSTING PRESSURE SENSOR NO. 7 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the heat exchanger pressure sensor no. 7. Applicable to the defrosting function only. | B               | 0 <sup>3</sup>   | 10 s       | 1             |
| 17:3   | 243   | ROTARY HEAT EXCHANGER, DEFROSTING PRESSURE OVER ALARM LIMIT<br>The need for defrosting has been over 95% continuously for 144 minutes.  | B               | 1 <sup>3/4</sup> | 2,4 h      | 0             |
| 17:4   | 244   | ROTARY HEAT EXCHANGER, ROTATION DETECTOR TRIPPED<br>No impulses from the rotation detector are registered with the heat exchanger controller.   | A <sup>1)</sup> | 1 <sup>3/4</sup> | 3 s        | 0             |
| 17:5   | 245   | ROTARY HEAT EXCHANGER, MOTOR CONTROLLER OVERCURRENT<br>Heat exchanger motor controller has registered excessively high current supplier to the drive motor.   | A <sup>1)</sup> | 1 <sup>3/4</sup> | 3 s        | 0             |

| Alarm No.                       | Alarm text<br>Function | Priority  | Stop                     | Delay                              | Resetting                   |   |
|---------------------------------|------------------------|---|--------------------------|------------------------------------|-----------------------------|---|
|                                 |                        | 0 = Blocked<br>A = A alarm<br>B = B alarm   | 0 = In oper.<br>1 = Stop | s = second<br>m = minute<br>h=hour | 0 = manual<br>1 = automatic |   |
| Display                         | Comm.                  |   |                          |                                    |                             |   |
| 17:6                            | 246                    | ROTARY HEAT EXCHANGER, MOTOR CONTROLLER UNDERVOLTAGE<br>Low feed voltage is supplied to the rotary heat exchanger's motor controller.                   | A <sup>1)</sup>          | 1 <sup>3/4)</sup>                  | 3 s                         | 0 |
| 17:7                            | 247                    | ROTARY HEAT EXCHANGER, MOTOR CONTROLLER OVERVOLTAGE<br>High feed voltage is supplied to the rotary heat exchanger's motor controller.                   | A <sup>1)</sup>          | 1 <sup>3/4)</sup>                  | 3 s                         | 0 |
| 17:8                            | 248                    | ROTARY HEAT EXCHANGER, MOTOR CONTROLLER EXCESS TEMPERATURE<br>High temperature (90°C) inside the heat exchanger's motor controller.                     | A <sup>1)</sup>          | 1 <sup>3/4)</sup>                  | 3 s                         | 0 |
| 17:9                            | 249                    | ROTARY HEAT EXCHANGER, MOTOR CONTROLLER START UP ERROR<br>Drive motor does not rotate during start up.  | A <sup>1)</sup>          | 1 <sup>3/4)</sup>                  | 3 s                         | 0 |
| <b>Alarm group 18: AYC</b>      |                        |   |                          |                                    |                             |   |
| 18:1                            | 256                    | AYC, I/O MODULE No. 7 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 7 for AYC. | A                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |
| 18:2                            | 257                    | AYC HEATING, TEMPERATURE SENSOR DEFECTIVE<br>Heating temperature sensor is defective or is not connected.   | A                        | 0 <sup>3)</sup>                    | 3 s                         | 1 |
| 18:3                            | 258                    | AYC HEATING, VALVE MONITORING TRIPPED<br>The heated water valve actuator is defective.  | B                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| 18:4                            | 259                    | AYC HEATING, PUMP MONITORING TRIPPED<br>The heated water pump is defective.   | A                        | 0 <sup>3)</sup>                    | 20 s                        | 0 |
| 18:5                            | 260                    | AYC HEATING, TEMPERATURE BELOW SET POINT LIMIT<br>Heating water temperature is below preset set point longer than 30 minutes.                           | A                        | 0 <sup>3)</sup>                    | 30 m                        | 0 |
| 18:6                            | 261                    | AYC HEATING, TEMPERATURE ABOVE SET POINT ALARM LIMIT <sup>5)</sup><br>Heating water temperature exceeds preset set point longer than 30 minutes.        | B                        | 0 <sup>3)</sup>                    | 30 m                        | 0 |
| 18:9                            | 264                    | AYC COOLING, TEMPERATURE SENSOR DEFECTIVE<br>Temperature sensor for the AYC function (All Year Comfort) cooling is defective or is not connected.       | A                        | 0 <sup>3)</sup>                    | 3 s                         | 1 |
| 18:10                           | 265                    | AYC COOLING, VALVE MONITORING TRIPPED<br>The chilled water valve actuator is defective.   | B                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| 18:11                           | 266                    | AYC COOLING, PUMP MONITORING TRIPPED<br>The chilled water pump is defective.  | A                        | 0 <sup>3)</sup>                    | 20 s                        | 0 |
| 18:12                           | 267                    | AYC COOLING, TEMPERATURE BELOW SET POINT ALARM LIMIT<br>Heating water temperature is below preset set point longer than 30 minutes.                     | A                        | 0 <sup>3)</sup>                    | 30 m                        | 0 |
| 18:13                           | 268                    | AYC COOLING, TEMPERATURE ABOVE SET POINT ALARM LIMIT <sup>5)</sup><br>Cooling water temperature exceeds preset set point longer than 30 minutes.        | B                        | 0 <sup>3)</sup>                    | 30 m                        | 0 |
| <b>Alarm group 19-20: Spare</b> |                        |   |                          |                                    |                             |   |
| <b>Alarm group 21: COOL DX</b>  |                        |   |                          |                                    |                             |   |
| 21:1                            | 301                    | COOL DX, I/O MODULE NO. 2 COMMUNICATION ERROR<br>The AHU control unit cannot establish correct communication with I/O module No. 2 for the COOL DX.     | B                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |

| Alarm No.                         | Alarm text<br>Function | Priority   | Stop                     | Delay                              | Resetting                   |   |
|-----------------------------------|------------------------|--|--------------------------|------------------------------------|-----------------------------|---|
|                                   |                        | 0 = Blocked<br>A = A alarm<br>B = B alarm  | 0 = In oper.<br>1 = Stop | s = second<br>m = minute<br>h=hour | 0 = manual<br>1 = automatic |   |
| Display                           | Comm.                  |  |                          |                                    |                             |   |
| 21:2                              | 302                    | COOL DX, COMPRESSOR NO. 1 LOW PRESSURE SENSOR DEFECTIVE<br>Low pressure sensor is defective or is not connected.                                 | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 5 s                         | 1 |
| 21:3                              | 303                    | COOL DX, COMPRESSOR NO. 1 LOW PRESSURE BELOW ALARM LIMIT<br>The low pressure sensor measures lower pressure than preset alarm limit pressure.    | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 5 s                         | 0 |
| 21:4                              | 304                    | COOL DX, COMPRESSOR NO. 1 HIGH PRESSURE SENSOR DEFECTIVE<br>High pressure sensor is defective or is not connected.                               | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 5 s                         | 1 |
| 21:5                              | 305                    | COOL DX, COMPRESSOR NO. 1 HIGH PRESSURE ABOVE ALARM LIMIT<br>The high pressure sensor measures higher pressure than preset alarm limit pressure. | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 3 s                         | 0 |
| 21:6                              | 306                    | COOL DX, COMPRESSOR NO. 1 MONITORING TRIPPED<br>Monitoring of compressor is defective.   | A                        | 0 <sup>3)</sup>                    | 20 s                        | 0 |
| 21:7                              | 307                    | COOL DX, COMPRESSOR NO. 1 RESTART ERROR<br>Compressor will not restart.  | A                        | 0 <sup>3)</sup>                    | 10 s                        | 0 |
| 21:8                              | 308                    | COOL DX, COMPRESSOR NO. 2 LOW PRESSURE SENSOR DEFECTIVE<br>Low pressure sensor is defective or is not connected.                                 | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 5 s                         | 1 |
| 21:9                              | 309                    | COOL DX, COMPRESSOR NO. 2 LOW PRESSURE BELOW ALARM LIMIT<br>The low pressure sensor measures lower pressure than preset alarm limit pressure.    | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 5 s                         | 0 |
| 21:10                             | 310                    | COOL DX, COMPRESSOR NO. 2 HIGH PRESSURE SENSOR DEFECTIVE<br>High pressure sensor is defective or is not connected.                               | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 5 s                         | 1 |
| 21:11                             | 311                    | COOL DX, COMPRESSOR NO. 2 HIGH PRESSURE ABOVE ALARM LIMIT<br>The high pressure sensor measures higher pressure than preset alarm limit pressure. | A <sup>1)</sup>          | 0 <sup>3)</sup>                    | 3 s                         | 0 |
| 21:12                             | 312                    | COOL DX, COMPRESSOR NO. 2 MONITORING TRIPPED<br>Monitoring of compressor is defective.   | A                        | 0 <sup>3)</sup>                    | 20 s                        | 0 |
| 21:13                             | 313                    | COOL DX, COMPRESSOR NO. 2 RESTART ERROR<br>Compressor will not restart.  | A                        | 0 <sup>3)</sup>                    | 10 s                        | 0 |
| 21:14                             | 314                    | COOL DX, OUTDOOR AIR TEMPERATURE SENSOR DEFECTIVE<br>Outdoor air temperature sensor is defective or is not connected.                            | B                        | 0 <sup>3)</sup>                    | 3 s                         | 1 |
| 21:15                             | 315                    | COOL DX, PHASE SEQUENCE MONITOR ERROR<br>Phase sequence protection for feed voltage to COOL DX has tripped.                                      | A                        | 0 <sup>3)</sup>                    | 5 s                         | 0 |
| <b>Alarm group 22: Spare</b>      |                        |  |                          |                                    |                             |   |
| <b>Alarm group 23: SMART Link</b> |                        |  |                          |                                    |                             |   |
| 23:1                              | 331                    | SMART Link, COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the chiller/heat pump.       | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 23:2                              | 332                    | SMART Link, ALARM LEVEL 1 TRIPPED<br>Chiller/heat pump has tripped, group alarm level 1.   | B                        | 0 <sup>3)</sup>                    | 30 s                        | 0 |
| 23:3                              | 333                    | SMART Link, ALARM LEVEL 2 TRIPPED<br>Chiller/heat pump has tripped, group alarm level 2.   | B                        | 0 <sup>3)</sup>                    | 30 s                        | 0 |
| 23:4                              | 334                    | SMART Link, ALARM LEVEL 3 TRIPPED<br>Chiller/heat pump has tripped, group alarm level 3.   | B                        | 0 <sup>3)</sup>                    | 30 s                        | 0 |

| Alarm No.                                    | Alarm text<br>Function | Priority  | Stop                     | Delay                              | Resetting                   |   |
|--|------------------------|---|--------------------------|------------------------------------|-----------------------------|---|
|  |                        | 0 = Blocked<br>A = A alarm<br>B = B alarm   | 0 = In oper.<br>1 = Stop | s = second<br>m = minute<br>h=hour | 0 = manual<br>1 = automatic |   |
| Display                                      | Comm.                  |   |                          |                                    |                             |   |
| 23:10  | 340                    | AQUA Link, I/O MODULE NO. 5 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module no. 5, AQUA Link                                 | B                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |
| 23:11  | 341                    | AQUA Link, PUMP MONITORING TRIPPED<br>Pump to AQUA Link is defective.   | B                        | 0 <sup>3)</sup>                    | 10 s                        | 0 |
| <b>Alarm group 24: SMART Link DX</b>         |                        |   |                          |                                    |                             |   |
| 24:1   | 346                    | SMART Link, no. 1 communication error<br>The air handling unit's control unit cannot establish correct communication with the chiller/heat pump 1.  | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 24:2   | 347                    | SMART Link, no. 1 alarm tripped<br>Chiller 1 defective.   | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 24:4   | 349                    | SMART Link, no. 2 communication error<br>The air handling unit's control unit cannot establish correct communication with the chiller/heat pump 2.  | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 24:5   | 350                    | SMART Link, no. 2 alarm tripped<br>Chiller 2 defective.   | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 24:7   | 352                    | SMART Link, no. 3 communication error<br>The air handling unit's control unit cannot establish correct communication with the chiller/heat pump 3.  | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 24:8   | 353                    | SMART Link, no. 3 alarm tripped<br>Chiller 3 defective.   | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 24:10  | 355                    | SMART Link, no. 4 communication error<br>The air handling unit's control unit cannot establish correct communication with the chiller/heat pump 4.  | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 24:11  | 356                    | SMART Link, no. 4 alarm tripped<br>Chiller 4 defective.   | A                        | 0 <sup>3)</sup>                    | 30 s                        | 1 |
| 24:13  | 358                    | SMART Link, supply air alarm flow below alarm limit<br>The alarm supply air flow below alarm limit has tripped.   | A                        | 0                                  | 10 m                        | 1 |
| <b>Alarm group 24-25: Spare</b>              |                        |   |                          |                                    |                             |   |
| <b>Alarm group 26: Pre-filter</b>            |                        |   |                          |                                    |                             |   |
| 26:1   | 376                    | PRE-FILTER, SUPPLY AIR PRESSURE SENSOR NO. 8 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the sensor of the supply air pre-filter.   | B                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |
| 26:2   | 377                    | PRE-FILTER, SUPPLY AIR FOULED<br>The pressure across the supply air pre-filter exceeds the preset alarm limit for more than 10 minutes.   | B                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| 26:7   | 382                    | PRE-FILTER, EXTRACT AIR PRESSURE SENSOR NO. 9 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the sensor of the extract air pre-filter. | B                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |
| 26:8   | 383                    | PRE-FILTER, EXTRACT AIR FOULED<br>The pressure across the extract air pre-filter exceeds the preset alarm limit for more than 10 minutes.   | B                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| <b>Alarm group 27: AHU, internal filters</b> |                        |   |                          |                                    |                             |   |
| 27:1   | 391                    | AHU FILTER, SUPPLY AIR PRESSURE SENSOR NO. 3/4 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the sensor of the AHU supply air filter. | B                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |

| Alarm No.                               | Alarm text<br>Function | Priority   | Stop                     | Delay                              | Resetting                   |   |
|---|------------------------|--|--------------------------|------------------------------------|-----------------------------|---|
|   |                        | 0 = Blocked<br>A = A alarm<br>B = B alarm  | 0 = In oper.<br>1 = Stop | s = second<br>m = minute<br>h=hour | 0 = manual<br>1 = automatic |   |
| Display                                 | Comm.                  |  |                          |                                    |                             |   |
| 27:2                                    | 392                    | AHU FILTER, SUPPLY AIR FOULED<br>The pressure across the AHU supply air filter has exceeded the preset alarm limit for more than 10 minutes.   | B                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| 27:7                                    | 397                    | AHU FILTER, EXTRACT AIR PRESSURE SENSOR NO. 3/4 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the sensor of the AHU extract air filter.                  | B                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |
| 27:8                                    | 398                    | AHU FILTER, EXTRACT AIR FOULED<br>The pressure across the AHU extract air filter has exceeded the preset alarm limit for more than 10 minutes.   | B                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| <b>Alarm group 28: Final filter</b>     |                        |  |                          |                                    |                             |   |
| 28:1                                    | 406                    | END FILTER, SUPPLY AIR PRESSURE SENSOR NO. A COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the sensor of the supply air end filter.                      | B                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |
| 28:2                                    | 407                    | END FILTER, SUPPLY AIR, FOULED<br>The pressure across the supply air end filter has exceeded the preset alarm limit for more than 10 minutes.  | B                        | 0 <sup>3)</sup>                    | 10 m                        | 0 |
| <b>Alarm group 29: Spare</b>            |                        |  |                          |                                    |                             |   |
| <b>Alarm group 30: Flow measurement</b> |                        |  |                          |                                    |                             |   |
| 30:1                                    | 436                    | AIRFLOW MEASUREMENT, SUPPLY AIR PRESSURE SENSOR NO. 1/2 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the flow pressure sensor in the supply air.        | A                        | 1 <sup>3)</sup>                    | 10 s                        | 1 |
| 30:2                                    | 437                    | AIRFLOW MEASUREMENT, SUPPLY AIRFLOW BELOW SET POINT ALARM LIMIT<br>The supply airflow has gone below its set point by more that 10%, during a longer period than 20 minutes.                                       | B                        | 0 <sup>3)</sup>                    | 20 m                        | 0 |
| 30:3                                    | 438                    | AIRFLOW MEASUREMENT, SUPPLY AIRFLOW ABOVE SET POINT ALARM LIMIT<br>The supply airflow has exceeded its set point by more that 10%, during a longer period than 20 minutes.   | B                        | 0 <sup>3)</sup>                    | 20 m                        | 0 |
| 30:6                                    | 441                    | AIRFLOW MEASUREMENT, EXTRACT AIR PRESSURE SENSOR NO. 1/2 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the flow pressure sensor in the extract air.      | A                        | 1 <sup>3)</sup>                    | 10 s                        | 1 |
| 30:7                                    | 442                    | AIRFLOW MEASUREMENT, EXTRACT AIRFLOW BELOW SET POINT ALARM LIMIT<br>The extract airflow has gone below its set point by more that 10%, during a longer period than 20 minutes.                                     | B                        | 0 <sup>3)</sup>                    | 20 m                        | 0 |
| 30:8                                    | 443                    | AIRFLOW MEASUREMENT, EXTRACT AIRFLOW ABOVE SET POINT ALARM LIMIT<br>The extract airflow has exceeded its set point by more that 10%, during a longer period than 20 minutes.                                       | B                        | 0 <sup>3)</sup>                    | 20 m                        | 0 |
| 30:11                                   | 446                    | AIRFLOW MEASUREMENT, PURGING PRESSURE SENSOR NO. B COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the sensor of the rotary heat exchanger purging sector. | B                        | 0 <sup>3)</sup>                    | 10 s                        | 1 |

| Alarm No.  |       | Alarm text<br>Function  | Priority    | Stop            | Delay             | Resetting     |
|--|-------|---|-------------|-----------------|-------------------|---------------|
| Display  | Comm. |   | 0 = Blocked | 0 = In oper.    | s = second        | 0 = manual    |
|  |       |   | A = A alarm | 1 = Stop        | m = minute        | 1 = automatic |
|  |       |   | B = B alarm |                 | h=hour            |               |
| <b>Alarm group 31: Pressure regulation</b>                         |       |   |             |                 |                   |               |
| 31:1   | 451   | PRESSURE REGULATION, SUPPLY AIR PRESSURE SENSOR NO. 5 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the duct pressure sensor in the supply air. Applies only to pressure regulation of the supply air.    | A           | 1 <sup>3)</sup> | 10 s              | 1             |
| 31:2   | 452   | PRESSURE REGULATION, SUPPLY AIR PRESSURE BELOW SET POINT ALARM LIMIT<br>The duct pressure has gone below its set point by more than 10%, during a longer period than 20 minutes ( if pressure sensors are connected).   | B           | 0 <sup>3)</sup> | 20 m              | 0             |
| 31:3   | 453   | PRESSURE REGULATION, SUPPLY AIR PRESSURE ABOVE SET POINT ALARM LIMIT<br>The supply air duct pressure has exceeded its set point by more than 10%, during a longer period than 20 minutes (if pressure sensors are connected).                                       | B           | 0 <sup>3)</sup> | 20 m              | 0             |
| 31:6   | 456   | PRESSURE REGULATION, EXTRACT AIR PRESSURE SENSOR NO. 6 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the duct pressure sensor in the extract air. Applies only to pressure regulation of the extract air. | A           | 1 <sup>3)</sup> | 10 s              | 1             |
| 31:7   | 457   | PRESSURE REGULATION, EXTRACT AIR PRESSURE BELOW SET POINT ALARM LIMIT<br>The extract air duct pressure has gone below its set point by more than 10%, during a longer period than 20 minutes (if pressure sensors are connected).                                   | B           | 0 <sup>3)</sup> | 20 m              | 0             |
| 31:8   | 458   | PRESSURE REGULATION, EXTRACT AIR PRESSURE ABOVE SET POINT ALARM LIMIT<br>The extract air duct pressure has exceeded its set point by more than 10%, during a longer period than 20 minutes (if pressure sensors are connected).                                     | B           | 0 <sup>3)</sup> | 20 m              | 0             |
| <b>Alarm group 32: ReCO<sub>2</sub>/Intermittent night heating</b> |       |   |             |                 |                   |               |
| 32:1   | 466   | ReCO <sub>2</sub> , I/O MODULE NO. 0 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module no. 0.  | A           | 0 <sup>3)</sup> | 10 s              | 1             |
| 32:2   | 467   | ReCO <sub>2</sub> , PRESSURE SENSOR NO. 0 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the pressure sensor.  | A           | 0 <sup>3)</sup> | 10 s              | 1             |
| 32:3   | 468   | ReCO <sub>2</sub> /INTERMITTENT NIGHT HEATING, RECIRCULATED AIR DAMPER MONITORING TRIPPED<br>The damper actuator does not move to the right position. The position-confirming output signal from the damper is not the same as the input control signal.            | B           | 0 <sup>3)</sup> | 10 m              | 0             |
| 32:4   | 469   | ReCO <sub>2</sub> , OUTDOOR AIR DAMPER MONITORING TRIPPED<br>The damper actuator does not move to the right position. The position-confirming output signal from the damper is not the same as the input control signal.  | B           | 0 <sup>3)</sup> | 10 m              | 0             |
| <b>Alarm group 33: Service</b>                                     |       |   |             |                 |                   |               |
| 33:1   | 481   | PERIOD BETWEEN SERVICING PAST ALARM LIMIT<br>The preset service period has expired.<br>If the alarm is RESET via the hand-held terminal, the alarm will be initiated again after 7 days.<br>A new service period can be set and reset under ALARM SETTINGS.         | B           | 0 <sup>3)</sup> | 5 s <sup>2)</sup> | 0             |



| Alarm No.  |       | Alarm text<br>Function  | Priority    | Stop            | Delay      | Resetting       |
|--|-------|---|-------------|-----------------|------------|-----------------|
| Display  | Comm. |   | 0 = Blocked | 0 = In oper.    | s = second | 0 = manual      |
|  |       |   | A = A alarm | 1 = Stop        | m = minute | 1 = automatic   |
|  |       |   | B = B alarm |                 | h=hour     |                 |
| 33:15  | 495   | LOCK FUNCTION TRIPPED<br>Contact Swegon or their representative.  | –           | –               | –          | 0 <sup>5)</sup> |
| <b>Alarm group 34: External controls</b>                   |       |   |             |                 |            |                 |
| 34:1   | 496   | EXTERNAL CONTROL, I/O MODULE NO. 3 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 3 for external control.       | B           | 0 <sup>3)</sup> | 10 s       | 1               |
| 34:2   | 497   | EXTERNAL CONTROL, I/O MODULE NO. 6 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 6 for external control.       | B           | 0 <sup>3)</sup> | 10 s       | 1               |
| <b>Alarm group 35: Booster diffusers</b>                   |       |   |             |                 |            |                 |
| 35:1   | 511   | BOOSTER AIR TERMINALS, I/O MODULE NO. 8 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. 8 for Booster diffusers. | B           | 0 <sup>3)</sup> | 10 s       | 1               |
| <b>Alarm group 36: External communication, I/O-modules</b> |       |   |             |                 |            |                 |
| 36:1   | 526   | EXTERNAL COMMUNICATION, I/O MODULE NO. A COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. A.                      | B           | 0 <sup>3)</sup> | 10 s       | 1               |
| 36:2   | 527   | EXTERNAL COMMUNICATION, I/O MODULE NO. A TEMPERATURE SENSOR NO. 1 DEFECTIVE<br>I/O-module A, temperature sensor 1, is defective or is not connected.                                    | B           | 0 <sup>3)</sup> | 3 s        | 1               |
| 36:3   | 528   | EXTERNAL COMMUNICATION, I/O MODULE NO. A TEMPERATURE SENSOR NO. 2 DEFECTIVE<br>I/O-module A, temperature sensor 2, is defective or is not connected.                                    | B           | 0 <sup>3)</sup> | 3 s        | 1               |
| 36:6   | 531   | EXTERNAL COMMUNICATION, I/O MODULE NO. B COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. B.                      | B           | 0 <sup>3)</sup> | 10 s       | 1               |
| 36:7   | 532   | EXTERNAL COMMUNICATION, I/O MODULE NO. B TEMPERATURE SENSOR NO. 1 DEFECTIVE<br>I/O-module B, temperature sensor 1, is defective or is not connected.                                    | B           | 0 <sup>3)</sup> | 3 s        | 1               |
| 36:8   | 533   | EXTERNAL COMMUNICATION, I/O MODULE NO. B TEMPERATURE SENSOR NO. 2 DEFECTIVE<br>I/O-module B, temperature sensor 2, is defective or is not connected.                                    | B           | 0 <sup>3)</sup> | 3 s        | 1               |
| 36:11  | 536   | EXTERNAL COMMUNICATION, I/O MODULE NO. C COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module No. C.                      | B           | 0 <sup>3)</sup> | 10 s       | 1               |
| 36:12  | 537   | EXTERNAL COMMUNICATION, I/O MODULE NO. C TEMPERATURE SENSOR NO. 1 DEFECTIVE<br>I/O-module C, temperature sensor 1, is defective or is not connected.                                    | B           | 0 <sup>3)</sup> | 3 s        | 1               |
| 36:13  | 538   | EXTERNAL COMMUNICATION, I/O MODULE NO. C TEMPERATURE SENSOR NO. 2 DEFECTIVE<br>I/O-module C, temperature sensor 2, is defective or is not connected.                                    | B           | 0 <sup>3)</sup> | 3 s        | 1               |



| Alarm No.   |  | Alarm text<br>Function  | Priority    | Stop            | Delay      | Resetting     |
|---|--|---|-------------|-----------------|------------|---------------|
| Display   | Comm.  |   | 0 = Blocked | 0 = In oper.    | s = second | 0 = manual    |
|   |  |   | A = A alarm | 1 = Stop        | m = minute | 1 = automatic |
|   |  |   | B = B alarm |                 | h=hour     |               |
| <b>Alarm group 37: Spare</b>                      |  |   |             |                 |            |               |
| <b>Alarm group 38-47: MIRU 1-10 <sup>7)</sup></b> |  |   |             |                 |            |               |
| 38-47:1   | 556, 571, 586, 601, 616, 631, 646, 661, 676, 691 | MIRU NO. 1-10 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communications with MIRU.  | A           | 0 <sup>3)</sup> | 10 s       | 1             |
| 38-47:2   | 557, 572, 587, 602, 617, 632, 647, 662, 677, 692 | MIRU NO. 1-10 MOTOR CONTROL ALARM TRIPPED<br>The MIRU motor control has tripped.  | A           | 0 <sup>3)</sup> | 5 s        | 1             |
| 38-47:3   | 558, 573, 588, 603, 618, 633, 648, 663, 678, 693 | MIRU NO. 1-10 MOTOR CONTROL COMMUNICATION ERROR<br>MIRU cannot establish correct communications with the power roof ventilator's motor controller.  | A           | 0 <sup>3)</sup> | 5 s        | 1             |
| 38-47:4   | 559, 574, 589, 604, 619, 634, 649, 664, 679, 694 | MIRU NO. 1-10 FLOW MEASUREMENT PRESSURE SENSOR NO. 0 COMMUNICATION ERROR<br>MIRU cannot establish correct communications with the power roof ventilator's flow measurement pressure sensor. | A           | 0 <sup>3)</sup> | 5 s        | 1             |
| 38-47:5   | 560, 575, 590, 605, 620, 635, 650, 665, 680, 695 | MIRU NO. 1-10 PRESSURE REGULATION SENSOR NO. 1 COMMUNICATION ERROR<br>MIRU cannot establish correct communications with the power roof ventilator's duct pressure sensor.                   | A           | 0 <sup>3)</sup> | 5 s        | 1             |
| 38-47:6   | 561, 576, 591, 606, 621, 636, 651, 666, 681, 696 | MIRU NO. 1-10 TEMPERATURE SENSOR DEFECTIVE<br>MIRU temperature sensor is defective or is not connected.   | B           | 0 <sup>3)</sup> | 5 s        | 1             |
| 38-47:7   | 562, 577, 592, 607, 622, 637, 652, 667, 682, 697 | MIRU NO. 1-10 FLOW/PRESSURE DEVIATION FROM THE SET POINT ALARM LIMIT<br>The air flow/pressure has continuously exceeded or been below its set point by more than 20%.                       | B           | 0 <sup>3)</sup> | 5 s        | 1             |
| 38-40:8   | 563, 578, 593                                    | MIRU NO. 1-3 FLOW BELOW SET POINT ALARM LIMIT<br>The flow has dropped below its set point for a period longer than 30 seconds.  | B           | 0               | 1200 s     | 0             |
| 38-40:9   | 564, 579, 594                                    | MIRU NO. 1-3 FLOW ABOVE SET POINT ALARM LIMIT<br>The flow has exceeded its set point by more that 10%, during a longer period than 20 minutes.  | B           | 0               | 1200 s     | 0             |
| 38-40:10  | 565, 580, 595                                    | MIRU NO. 1-3 PRESSURE BELOW SET POINT ALARM LIMIT<br>The pressure has dropped below its set point for a period longer than 30 seconds.  | B           | 0               | 1200 s     | 0             |
| 38-40:11  | 566, 581, 596                                    | MIRU NO. 1-3 PRESSURE ABOVE SET POINT ALARM LIMIT<br>The pressure has exceeded its set point by more that 10%, during a longer period than 20 minutes.                                      | B           | 0               | 1200 s     | 0             |

| Alarm No.   |                                    | Alarm text<br>Function  | Priority        | Stop            | Delay      | Resetting     |
|---|------------------------------------|---|-----------------|-----------------|------------|---------------|
| Display   | Comm.                              |   | 0 = Blocked     | 0 = In oper.    | s = second | 0 = manual    |
|   |                                    |   | A = A alarm     | 1 = Stop        | m = minute | 1 = automatic |
|   |                                    |   | B = B alarm     |                 | h=hour     |               |
| <b>Alarm group 49-54: Supply air fan no. 1A-3B <sup>8)</sup></b>  |                                    |   |                 |                 |            |               |
| 49-54:1   | 721, 736,<br>751, 766,<br>781, 796 | SUPPLY AIR FAN 1-3/A-B COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the supply air fan motor controller.   | A               | 1 <sup>3)</sup> | 10 s       | 1             |
| 49-54:2   | 722, 737,<br>752, 767,<br>782, 797 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROLLER OVER-CURRENT<br>High current supplied to motor  | A <sup>1)</sup> | 1 <sup>3)</sup> | 10 s       | 0             |
| 49-54:3   | 723, 738,<br>753, 768,<br>783, 798 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROLLER UNDERVOLTAGE<br>Voltage below the normal level is supplied.   | A <sup>1)</sup> | 1 <sup>3)</sup> | 60 s       | 0             |
| 49-54:4   | 724, 739,<br>754, 769,<br>784, 799 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROLLER OVER-VOLTAGE<br>Excessively high voltage is supplied.   | A <sup>1)</sup> | 1 <sup>3)</sup> | 10 s       | 0             |
| 49-54:5   | 725, 740,<br>755, 770,<br>785, 800 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROLLER EXCESS TEMPERATURE<br>High internal temperature.  | A <sup>1)</sup> | 1 <sup>3)</sup> | 10 s       | 0             |
| 49-54:6   | 726, 741,<br>756, 771,<br>786, 801 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROL START UP ERROR<br>Supply air fan does not rotate on a start up, rotates in wrong direction or rotates at excessively high speed. | A <sup>1)</sup> | 1 <sup>3)</sup> | 10 s       | 0             |
| 49-54:7   | 727, 742,<br>757, 772,<br>787, 802 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROLLER UNEVEN PHASE VOLTAGE<br>High voltage difference between the phases (3-phase, 400 V), which causes rippling.                   | A <sup>1)</sup> | 1 <sup>3)</sup> | 10 s       | 1             |
| 49-54:8   | 728, 743,<br>758, 773,<br>788, 803 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROLLER PHASE FAILURE<br>Phase failure in motor controller.   | A <sup>1)</sup> | 1 <sup>3)</sup> | 10 s       | 1             |
| 49-54:9   | 729, 744,<br>759, 774,<br>789, 804 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROLLER MEMORY ERROR<br>Internal memory error in motor controller.  | A <sup>1)</sup> | 1 <sup>3)</sup> | 10 s       | 1             |
| 49-54:10  | 730, 745,<br>760, 775,<br>790, 805 | SUPPLY AIR FAN 1-3/A-B MOTOR CONTROLLER CURRENT LIMITATION<br>Current/Voltage limitation in motor controller.   | B               | 0 <sup>3)</sup> | 60 s       | 1             |
| 49-51:11  | 731, 746,<br>761                   | SUPPLY AIR FAN 1A-3A MOTOR CONTROLLER INTERNAL COMMUNICATION ERROR<br>Internal communication error in motor controller.   | A               | 1 <sup>3)</sup> | 10 s       | 1             |
| <b>Alarm group 55-60: Extract air fan no. 1A-3B <sup>9)</sup></b> |                                    |   |                 |                 |            |               |
| 55-60:1   | 811, 826,<br>841, 856,<br>871, 886 | EXTRACT AIR FAN 1-3/A-B COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the extract air fan motor controller. | A               | 1 <sup>3)</sup> | 10 s       | 1             |
| 55-60:2   | 812, 827,<br>842, 857,<br>872, 887 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER OVERCURRENT<br>High current supplied to motor  | A <sup>1)</sup> | 1 <sup>3)</sup> | 3 s        | 0             |
| 55-60:3   | 813, 828,<br>843, 858,<br>873, 888 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER UNDERVOLTAGE<br>Voltage below the normal level is supplied.  | A <sup>1)</sup> | 1 <sup>3)</sup> | 60 s       | 0             |
| 55-60:4   | 814, 829,<br>844, 859,<br>874, 889 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER OVERCURRENT<br>Excessively high voltage is supplied.   | A <sup>1)</sup> | 1 <sup>3)</sup> | 3 s        | 0             |

| Alarm No.  |                              | Alarm text<br>Function   | Priority        | Stop            | Delay      | Resetting     |
|--|------------------------------|--|-----------------|-----------------|------------|---------------|
| Display  | Comm.                        |  | 0 = Blocked     | 0 = In oper.    | s = second | 0 = manual    |
|  |                              |  | A = A alarm     | 1 = Stop        | m = minute | 1 = automatic |
|  |                              |  | B = B alarm     |                 | h=hour     |               |
| 55-60:5  | 815, 830, 845, 860, 875, 890 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER EXCESS TEMPERATURE<br>High internal temperature.  | A <sup>1)</sup> | 1 <sup>3)</sup> | 3 s        | 0             |
| 55-60:6  | 816, 831, 846, 861, 876, 891 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER START UP ERROR<br>Extract air fan does not rotate on a start up, rotates in wrong direction or rotates at excessively high speed.   | A <sup>1)</sup> | 1 <sup>3)</sup> | 3 s        | 0             |
| 55-60:7  | 817, 832, 847, 862, 877, 892 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER UNEVEN PHASE VOLTAGE<br>High voltage difference between the phases (3-phase, 400 V), which causes rippling.                         | A <sup>1)</sup> | 1 <sup>3)</sup> | 5 s        | 1             |
| 55-60:8  | 818, 833, 848, 863, 878, 893 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER PHASE FAILURE<br>Phase failure in motor controller.   | A <sup>1)</sup> | 1 <sup>3)</sup> | 5 s        | 1             |
| 55-60:9  | 819, 834, 849, 864, 879, 894 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER MEMORY ERROR<br>Internal memory error in motor controller.  | A <sup>1)</sup> | 1 <sup>3)</sup> | 5 s        | 1             |
| 55-60:10   | 820, 835, 850, 865, 880, 895 | EXTRACT AIR FAN 1-3/A-B MOTOR CONTROLLER CURRENT LIMITATION<br>Current/Voltage limitation in motor controller.   | B               | 0 <sup>3)</sup> | 60 s       | 1             |
| 55-57:11   | 821, 836, 851                | EXTRACT AIR FAN 1A-3A MOTOR CONTROLLER INTERNAL COMMUNICATION ERROR<br>Internal communication error in motor controller.   | A               | 1 <sup>3)</sup> | 5 s        | 1             |
| <b>Alarm group 61: Supply air fan, I/O module</b>  |                              |  |                 |                 |            |               |
| 61:1   | 901                          | SUPPLY AIR FAN NO. 1A I/O MODULE COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with supply air fan no. 1A I/O module.   | A               | 1 <sup>3)</sup> | 10 s       | 1             |
| 61:6   | 906                          | SUPPLY AIR FAN NO. 2A I/O MODULE COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with supply air fan no. 2A I/O module.   | A               | 1 <sup>3)</sup> | 10 s       | 1             |
| 61:11  | 911                          | SUPPLY AIR FAN NO. 3A I/O MODULE COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with supply air fan no. 3A I/O module.   | A               | 1 <sup>3)</sup> | 10 s       | 1             |
| <b>Alarm group 62: Extract air fan, I/O module</b> |                              |  |                 |                 |            |               |
| 62:1   | 916                          | EXTRACT AIR FAN NO. 1A I/O MODULE COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with extract air fan no. 1A I/O module. | A               | 1 <sup>3)</sup> | 10 s       | 1             |
| 62:6   | 921                          | EXTRACT AIR FAN NO. 2A I/O MODULE COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with extract air fan no. 2A I/O module. | A               | 1 <sup>3)</sup> | 10 s       | 1             |
| 62:11  | 926                          | EXTRACT AIR FAN NO. 3A I/O MODULE COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with extract air fan no. 3A I/O module. | A               | 1 <sup>3)</sup> | 10 s       | 1             |

| Alarm No.  |       | Alarm text<br>Function  | Priority    | Stop            | Delay      | Resetting     |
|--|-------|---|-------------|-----------------|------------|---------------|
| Display  | Comm. |   | 0 = Blocked | 0 = In oper.    | s = second | 0 = manual    |
|  |       |   | A = A alarm | 1 = Stop        | m = minute | 1 = automatic |
|  |       |   | B = B alarm |                 | h=hour     |               |
| <b>Alarm group 63: MIRU, I/O module</b>                      |       |   |             |                 |            |               |
| 63:1   | 931   | MIRU NO. 1 I/O MODULE COMMUNICATIONS ERROR<br>The air handling unit's control unit cannot establish correct communications with MIRU no. 1 I/O module.                                    | A           | 1 <sup>3)</sup> | 10 s       | 1             |
| 63:6   | 936   | MIRU NO. 2 I/O MODULE COMMUNICATIONS ERROR<br>The air handling unit's control unit cannot establish correct communications with MIRU no. 2 I/O module.                                    | A           | 1 <sup>3)</sup> | 10 s       | 1             |
| 63:11  | 941   | MIRU NO. 3 I/O MODULE COMMUNICATIONS ERROR<br>The air handling unit's control unit cannot establish correct communications with MIRU no. 3 I/O module.                                    | A           | 1 <sup>3)</sup> | 10 s       | 1             |
| <b>Alarm groups 70 – 74: Reversible heat pump/chiller HC</b> |       |   |             |                 |            |               |
| 70:1   | 1036  | HC CONTROL UNIT COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the HC control unit.  | A           | 0               | 10 s       | 1             |
| 70:2   | 1037  | HC CONTROL UNIT GROUP ALARM TRIPPED<br>The HC control unit has tripped a common fault alarm   | A           | 0               | 10 s       | 1             |
| 70:3   | 1038  | HC CONTROL UNIT DEFECTIVE TIMER CIRCUIT<br>HC control unit is defective or is not connected.  | A           | 0               | 10 s       | 1             |
| 70:5   | 1040  | HC DEFROSTING, PRESSURE SENSOR NO. D COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the pressure sensor no. D for HC defrosting. | A           | 0               | 10 s       | 1             |
| 70:6   | 1041  | HC DEFROSTING, I/O MODULE NO. 5 COMMUNICATIONS ERROR<br>The air handling unit's control unit cannot establish correct communication with I/O module no. 5 for HC defrosting.              | A           | 0               | 10 s       | 1             |
| 70:7   | 1042  | HC DEFROSTING, RECIRCULATION DAMPER MONITORING TRIPPED<br>Recirculation damper alarm HC defrosting has tripped.   | B           | 0               | 180 s      | 1             |
| 70:8   | 1043  | HC DEFROSTING, EL. HEATING COIL TRIPPED<br>Electric air heating coil alarm HC defrosting has tripped.   | A           | 0               | 10 s       | 0             |
| 70:9   | 1044  | HC DEFROSTING TIME CIRCUIT 1 ABOVE ALARM LIMIT<br>HC defrosting time for circuit 1 has been exceeded.   | B           | 0               | 10 s       | 1             |
| 70:12  | 1046  | HC PHASE SEQUENCE ERROR<br>Phase sequence protection for feed voltage to HC has tripped.  | A           | 0 <sup>3)</sup> | 5 s        | 0             |
| 71:1   | 1051  | HC COMPRESSOR MOTOR CONTROL COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the HC compressor motor control.                      | A           | 0               | 10 s       | 1             |
| 71:2   | 1052  | HC COMPRESSOR MOTOR CONTROL START-UP FAILURE<br>The compressor motor does not rotate during start up.   | A           | 0               | 10 s       | 1             |
| 71:3   | 1053  | HC COMPRESSOR MOTOR CONTROL OVER OR UNDER VOLTAGE<br>Low or high power supply to compressor motor control.  | A           | 0               | 10 s       | 1             |
| 71:4   | 1054  | HC COMPRESSOR OUTSIDE WORKING RANGE<br>HC compressor works outside its ordinary working range.  | A           | 0               | 10 s       | 1             |

| Alarm No.   |                  | Alarm text<br>Function   | Priority    | Stop         | Delay      | Resetting     |
|---|------------------|--|-------------|--------------|------------|---------------|
| Display   | Comm.            |  | 0 = Blocked | 0 = In oper. | s = second | 0 = manual    |
|   |                  |  | A = A alarm | 1 = Stop     | m = minute | 1 = automatic |
|   |                  |  | B = B alarm |              | h=hour     |               |
| 71:9  | 1059             | HC EXPANSION VALVE CONTROL CIRCUIT 1 COMMUNICATION ERROR<br>The air handling unit's control unit cannot establish correct communication with the HC expansion valve control circuit 1. | A           | 0            | 10 s       | 1             |
| 72:1  | 1066             | HC HIGH PRESSURE MONITOR CIRCUIT 1 TRIPPED<br>The high pressure monitor alarm HC circuit 1, has tripped.   | A           | 0            | 10 s       | 1             |
| 72:2  | 1067             | HC HIGH PRESSURE CIRCUIT 1 ABOVE ALARM LIMIT<br>The high pressure alarm HC circuit 1, has tripped.   | A           | 0            | 10 s       | 1             |
| 72:3  | 1068             | HC THERMOSTATIC CONTACT CIRCUIT 1 TRIPPED<br>The thermostatic contacts alarm HC circuit 1, has tripped.  | A           | 0            | 10 s       | 1             |
| 72:4  | 1069             | HC HOT GAS TEMPERATURE CIRCUIT 1 ABOVE ALARM LIMIT<br>The hot gas temperature alarm HC circuit 1, has tripped.   | A           | 0            | 10 s       | 1             |
| 72:5  | 1070             | HC HOT GAS TEMPERATURE CIRCUIT 1 DEFECTIVE<br>Hot gas temperature sensor is defective or is not connected.   | A           | 0            | 10 s       | 1             |
| 72:6  | 1071             | HC HIGH PRESSURE SENSOR CIRCUIT 1 DEFECTIVE<br>High pressure sensor HC circuit 1, is defective or is not connected.  | A           | 0            | 10 s       | 1             |
| 72:7  | 1072             | HC LOW PRESSURE SENSOR CIRCUIT 1 DEFECTIVE<br>Low pressure sensor HC circuit 1, is defective or is not connected.  | A           | 0            | 10 s       | 1             |
| 72:8  | 1073             | HC SUCTION GAS TEMPERATURE CIRCUIT 1 DEFECTIVE<br>Suction gas line temperature sensor HC circuit 1, is defective or is not connected.  | A           | 0            | 10 s       | 1             |
| 72:9  | 1074             | HC PRESSURE DIFFERENCE CIRCUIT 1 BELOW ALARM LIMIT<br>The pressure difference HC circuit 1, has tripped.   | A           | 0            | 10 s       | 1             |
| 72:10   | 1075             | HC SERVICE OF CIRCUIT 1 AND COMPRESSOR<br>Service of circuit 1 and compressor required.  | A           | 0            | 10 s       | 1             |
| 72:11   | 1076             | HC OVERHEATING TEMPERATURE CIRCUIT 1 BELOW ALARM LIMIT<br>HC overheating temperature circuit 1 falls below the set alarm limit.  | A           | 0            | 10 s       | 1             |
| 72:12   | 1077             | HC PRESSURE EQUALISATION OF LOW PRESSURE CIRCUIT 1<br>HC pressure equalisation low pressure circuit 1, has tripped.  | A           | 0            | 10 s       | 1             |
| 72:13   | 1078             | HC PRESSURE EQUALISATION OF HIGH PRESSURE CIRCUIT 1<br>HC pressure equalisation high pressure circuit 1, has tripped.  | A           | 0            | 10 s       | 1             |
| 72:14   | 1079             | HC LOW PRESSURE CIRCUIT 1 BELOW ALARM LIMIT<br>HC low pressure circuit 1 falls below the set alarm limit.  | A           | 0            | 10 s       | 1             |
| <b>Alarm group 77 – 79: MIRU, motor controllers</b> |                  |  |             |              |            |               |
| 77-79:2   | 1142, 1157, 1172 | MIRU NO. 1-3 MOTOR CONTROLLER OVERCURRENT<br>Motor controller for roof ventilator MIRUVENT has registered excessively high current to the drive motor.                                 | A           | 0            | 10 s       | 0             |

| Alarm No.   |                        | Alarm text<br>Function   | Priority    | Stop         | Delay      | Resetting     |
|---|------------------------|--|-------------|--------------|------------|---------------|
| Display   | Comm.                  |  | 0 = Blocked | 0 = In oper. | s = second | 0 = manual    |
|   |                        |  | A = A alarm | 1 = Stop     | m = minute | 1 = automatic |
|   |                        |  | B = B alarm |              | h=hour     |               |
| 77-79:3   | 1143, 1158, 1173       | MIRU NO. 1-3 MOTOR CONTROLLER UNDERVOLTAGE<br>Low supply voltage to the roof ventilator MIRUVENT's motor controller.                                     | A           | 0            | 60 sec.    | 0             |
| 77-79:4   | 1144, 1159, 1174       | MIRU NO. 1-3 MOTOR CONTROLLER OVER VOLTAGE<br>High supply voltage to the roof ventilator MIRUVENT's motor controller.                                    | A           | 0            | 10 s       | 0             |
| 77-79:5   | 1145, 1160, 1175       | MIRU NO. 1-3 MOTOR CONTROLLER OVER TEMPERATURE<br>High internal temperature.   | A           | 0            | 10 s       | 0             |
| 77-79:6   | 1146, 1161, 1176       | MIRU NO. 1-3 MOTOR CONTROLLER START-UP FAILURE<br>Drive motor does not rotate during start up.   | A           | 0            | 10 s       | 0             |
| 77-79:7   | 1147, 1162, 1177       | MIRU NO. 1-3 MOTOR CONTROLLER UNEVEN PHASE VOLTAGE<br>High voltage difference between the phases (3-phase, 400 V), which causes rippling.                | A           | 0            | 10 s       | 1             |
| 77-79:8   | 1148, 1163, 1178       | MIRU NO. 1-3 MOTOR CONTROLLER PHASE ERROR<br>Phase failure in motor controller.  | A           | 0            | 10 s       | 1             |
| 77-79:9   | 1149, 1164, 1179       | MIRU NO. 1-3 MOTOR CONTROLLER INTERNAL MEMORY ERROR<br>Internal memory error in motor controller.  | A           | 0            | 10 s       | 1             |
| 77-79:10  | 1150, 1165, 1180       | MIRU NO. 1-3 MOTOR CONTROLLER CURRENT LIMITATION<br>Current/Voltage limitation in motor controller.  | A           | 0            | 60 sec.    | 1             |
| 77-79:11  | 1151, 1166, 1181       | MIRU NO. 1-3 MOTOR CONTROLLER INTERNAL COMMUNICATIONS ERROR<br>Internal communication error in motor controller.   | A           | 0            | 10 s       | 1             |
| <b>Alarm group 81 – 84: SMART Link, supply air flow</b> |                        |  |             |              |            |               |
| 81-84:2   | 1202, 1217, 1232, 1247 | SMART LINK NO. 1-4 SUPPLY AIR FLOW BELOW DEFROSTING ALARM LIMIT<br>The alarm for supply air flow below defrosting alarm limit has tripped.               | A           | 0            | 70 m       | 1             |
| 81-84:3   | 1203, 1218, 1233, 1248 | SMART LINK NO. 1-4 HIGH PRESSURE MONITOR TRIPPED<br>The high pressure monitor alarm has tripped.   | A           | 0            | 30 s       | 1             |
| 81-84:4   | 1204, 1219, 1234, 1249 | SMART LINK NO. 1-4 HIGH PRESSURE ABOVE ALARM LIMIT<br>The high pressure sensor measures higher pressure than preset alarm limit pressure.                | A           | 0            | 30 s       | 1             |
| 81-84:5   | 1205, 1220, 1235, 1250 | SMART LINK NO. 1-4 LOW PRESSURE BELOW ALARM LIMIT<br>The low pressure sensor measures lower pressure than preset alarm limit pressure.                   | A           | 0            | 30 s       | 1             |
| 81-84:6   | 1206, 1221, 1236, 1251 | SMART LINK NO. 1-4 EVAPORATION TEMPERATURE BELOW ALARM LIMIT<br>The evaporation temperature drops below the preset alarm limit for more than 30 seconds. | A           | 0            | 30 s       | 1             |
| 81-84:7   | 1207, 1222, 1237, 1252 | SMART LINK NO. 1-4 GROUP ALARM FREQUENCY CONVERTER<br>The frequency converter has tripped a group alarm  | A           | 0            | 30 s       | 1             |

| Alarm No. |                        | Alarm text<br>Function   | Priority    | Stop         | Delay      | Resetting     |
|-----------|------------------------|--|-------------|--------------|------------|---------------|
| Display   | Comm.                  |  | 0 = Blocked | 0 = In oper. | s = second | 0 = manual    |
|           |                        |  | A = A alarm | 1 = Stop     | m = minute | 1 = automatic |
|           |                        |  | B = B alarm |              | h=hour     |               |
| 81-84:8   | 1208, 1223, 1238, 1253 | SMART LINK NO. 1-4 OUTSIDE WORKING RANGE<br>SMART Link works outside its ordinary working range.   | A           | 0            | 30 s       | 1             |
| 81-84:9   | 1209, 1224, 1239, 1254 | SMART LINK NO. 1-4 COMPRESSOR, START-UP FAILURE<br>The compressor motor does not rotate during start up.   | A           | 0            | 30 s       | 1             |
| 81-84:10  | 1210, 1225, 1240, 1255 | SMART LINK NO. 1-4 HOT GAS TEMPERATURE ABOVE ALARM LIMIT<br>Hot gas temperature has exceeded the alarm limit.                                    | A           | 0            | 30 s       | 1             |
| 81-84:11  | 1211, 1226, 1241, 1256 | SMART LINK NO. 1-4 PRESSURE DIFFERENCE BELOW ALARM LIMIT<br>The pressure difference drops below the preset alarm limit for more than 30 seconds. | A           | 0            | 30 s       | 1             |

<sup>1)</sup> Cannot be blocked.

<sup>2)</sup> The delay is adjustable.

<sup>3)</sup> Adjustable.

<sup>4)</sup> Stops the AHU if the temperature is below the adjustable limit.

<sup>5)</sup> Inactive as factory setting.

<sup>6)</sup> Contact Swegon or their representative.

<sup>7)</sup> Alarm group 38 = MIRU Control 1. Alarm group 39 = MIRU Control 2. Alarm group 40 = MIRU Control 3. Alarm group 41 = MIRU Control 4. Alarm group 42 = MIRU Control 5. Alarm group 43 = MIRU Control 6. Alarm group 44 = MIRU Control 7. Alarm group 45 = MIRU Control 8. Alarm group 46 = MIRU Control 9. Alarm group 47 = MIRU Control 10.

<sup>8)</sup> Alarm group 49 = Supply air fan 1A. Alarm group 50 = Supply air fan 2A. Alarm group 51 = Supply air fan 3A. Alarm group 52 = Supply air fan 1B. Alarm group 53 = Supply air fan 2B. Alarm group 54 = Supply air fan 3B.

<sup>9)</sup> Alarm group 55 = Extrat air fan 1A. Alarm group 56 = Extrat air fan 2A. Alarm group 57 = Extrat air fan 3A. Alarm group 58 = Extrat air fan 1B. Alarm group 59 = Extrat air fan 2B. Alarm group 60 = Extrat air fan 3B.

## 2. Information Messages

Information messages are displayed in the hand-held terminal. Information messages are displayed only when the terminal is in the Dashboard image.

Information messages provide information e.g. about necessary settings that have not been entered or unfavourable operating conditions. The information message is indicated by a blue circle in the alarm log button on the instrument panel.

| Message No. | Message text   |
|-------------|--|
| 96:1        | HC DEFROSTING CALIBRATION NOT PERFORMED<br>HC defrosting calibration cannot be performed.  |
| 96:2        | HC DEFROSTING CALIBRATION NOT APPROVED<br>HC defrosting calibration is performed, but read values are not approved.  |
| 96:3        | HC LIMIT FOR SUPPLY AIR FLOW IS BELOW THE FACTORY SETTING<br>The set limit for the supply air flow is below the factory setting that permits HC operation.   |
| 96:4        | HC LIMIT FOR EXTRACT AIR FLOW IS BELOW THE FACTORY SETTING<br>The set limit for the extract air flow is below the factory setting that permits HC operation.   |
| 96:5        | HC OUTDOOR TEMPERATURE LIMIT FOR HEATING BELOW THE FACTORY SETTING<br>The set limit for the outdoor air temperature is below the factory setting that permits HC operation.  |
| 97:12       | PLATE HEAT EXCHANGER, BYPASS OPTIMIZATION NOT PERFORMED<br>Bypass optimization of plate heat exchanger cannot be performed.  |
| 97:13       | PLATE HEAT EXCHANGER, BYPASS OPTIMIZATION FAILURE<br>Bypass optimization of the plate heat exchanger has been performed, but the readings are not satisfactory.  |
| 97:14       | PLATE HEAT EXCHANGER DEFROSTING CALIBRATION NOT PERFORMED<br>Defrosting calibration of the plate heat exchanger cannot be performed.   |
| 97:15       | PLATE HEAT EXCHANGER DEFROSTING CALIBRATION FAILURE<br>Defrosting calibration of the plate heat exchanger has been performed, but the readings are not satisfactory.   |
| 98:1        | SUPPLY AIR PRE-FILTER CALIBRATION NOT PERFORMED<br>Pre-filter calibration, supply air, not performed after first start. Recurrent at 30 minute intervals. The message is not received after completed filter calibration.  |
| 98:2        | SUPPLY AIR PRE-FILTER CALIBRATION FAILURE<br>Pre-filter calibration failure, supply air. Recurrent at 5 second intervals.  |
| 98:3        | EXTRACT AIR PRE-FILTER CALIBRATION NOT PERFORMED<br>Pre-filter calibration, extract air, not performed after first start. Recurrent at 30 minute intervals. The message is not received after completed filter calibration.  |
| 98:4        | EXTRACT AIR PRE-FILTER CALIBRATION FAILURE<br>Pre-filter calibration failure, extract air. Recurrent at 5 second intervals.  |
| 98:5        | SUPPLY AIR AHU FILTER CALIBRATION NOT PERFORMED<br>supply air AHU filter calibration, supply air, not performed after first start. Recurrent at 30 minute intervals. The message is not received after completed filter calibration.   |
| 98:6        | SUPPLY AIR AHU FILTER CALIBRATION FAILURE<br>AHU filter calibration failure, supply air. Recurrent at 5 second intervals.  |
| 98:7        | EXTRACT AIR AHU FILTER CALIBRATION NOT PERFORMED<br>AHU filter calibration, extract air, not performed after first start. Recurrent at 30 minute intervals. The message is not received after completed filter calibration.  |
| 98:8        | EXTRACT AIR AHU FILTER CALIBRATION FAILURE<br>AHU filter calibration failure, extract air. Recurrent at 5 second intervals.  |
| 98:9        | SUPPLY AIR END FILTER CALIBRATION NOT PERFORMED<br>End filter calibration, supply air, not performed after first start. Recurrent at 30 minute intervals. The message is not received after completed filter calibration.  |
| 98:10       | SUPPLY AIR END FILTER CALIBRATION FAILURE<br>End filter calibration failure, supply air. Recurrent at 5 second intervals.  |
| 98:11       | ROTARY HEAT EXCHANGER DEFROSTING CALIBRATION NOT PERFORMED<br>Defrost calibration, rotary heat exchanger, not performed after function was activated for first time. Recurrent at 30 minute intervals. The message is not received after completed heat exchanger calibration. |



| Alarm No. | Alarm text<br>Function   |
|-----------|--|
| 98:12     | ROTARY HEAT EXCHANGER DEFROSTING CALIBRATION FAILURE<br>Defrost calibration failure, rotary heat exchanger. Recurrent at 5 second intervals.   |
| 98:13     | ReCO <sub>2</sub> CALIBRATION NOT PERFORMED<br>ReCO <sub>2</sub> calibration not performed after function was activated for first time. Recurrent at 30 minute intervals. Message is not received after completed ReCO <sub>2</sub> calibration. |
| 98:14     | ReCO <sub>2</sub> CALIBRATION FAILURE<br>ReCO <sub>2</sub> calibration failure. Recurrent at 5 second intervals.   |
| 98:15     | ReCO <sub>2</sub> WRONG SETTING<br>Pressure regulation, slave control or wrong type of AHU is selected. Recurrent at 5 second intervals.   |
| 99:1      | E-MAIL ERROR<br>Error when sending e-mail. The message is received after ten tries.  |
| 99:5      | FTP ERROR<br>Error when sending to ftp. The message is received after ten tries.   |
| 99:7      | SD SHORT MEMORY SOON FULL<br>The SD card's memory is soon full. The oldest log data will soon be deleted. Factory default Off.   |
| 99:8      | SD SHORT MEMORY FULL<br>The SD card's memory is full. The oldest log data is being deleted. Factory default Off.   |
| 99:11     | NO EXTERNAL OUTDOOR TEMPERATURE SENSOR CONNECTED FOR HEAT-RETAINING FUNCTION<br>Temperature sensor for heat-retaining function is not fitted or is not connected correctly.  |
| 99:14     | INTERNAL SERIAL MEMORY ERROR CPEX1<br>Internal serial memory error CPEX1   |
| 99:15     | CLOCK CIRCUIT DEFECTIVE<br>Circuit for the clock is defective  |

