

REACT

Gruner – Description of functions & wiring diagrams

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Description of products

Climate products



REACT ALS GMB

Commissioning box for variable or constant flow regulation of supply air diffusers (Modbus).

Duct mounted products



REACT M GMB

Stand-alone measurement unit for measuring the air flow (Modbus).



REACT V GMB

Damper for variable or constant flow regulation (Modbus).



REACT V-SR GMB

Damper for variable or constant flow regulation with spring return actuator (Modbus).



REACT P GMB

Damper for pressure regulation (Modbus).



REACT PX GMB

Damper for pressure regulation, with external regulator (Modbus).



REACT PX-SR GMB

Damper for pressure regulation, with external regulator and spring return actuator (Modbus).

Room accessories



DETECT IAQ

Carbon dioxide and temperature controller (Modbus).



DETECT IAQ OCS

Carbon dioxide and temperature controller that also detects occupancy (Modbus).



DETECT IAQ D

Carbon dioxide and temperature controller for duct installation (Modbus).



DETECT Occupancy

Occupancy detector for ceiling installation.



LUNA RC

Room controller for temperature control, with display (Modbus).



LUNA RC CO₂

Room controller for temperature control and CO₂, with display (Modbus).



LUNA RE

Room controller for temperature control (Modbus).



DETECT Occupancy

Occupancy detector for wall and corner installation.

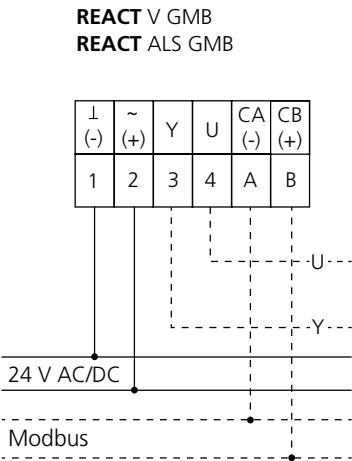
Constant flow regulation

Air flow measuring and regulating damper to maintain the set air flow.
Potential for Modbus communication in combination with analogue control signals.

Settings

- Air flow control**
- Vmin : Constant flow
 - Vmax : 0
 - Mode : 0 (2)-10 V
 - Setpoint source : Analogue
 - Bus protocol : Modbus
 - Indicates "Test" on the display.

Wiring diagram



Notes

Air flow control

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal.

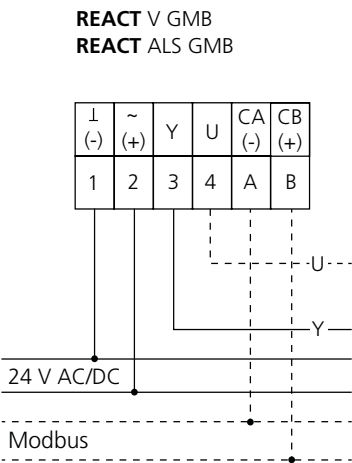
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Two-flow control with occupancy detector

Air flow measuring and regulating damper that controls the air flow on the set position. The damper switches between two fixed flows via occupancy detection.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

Vmin : Unoccupied flow

Vmax : Occupancy flow

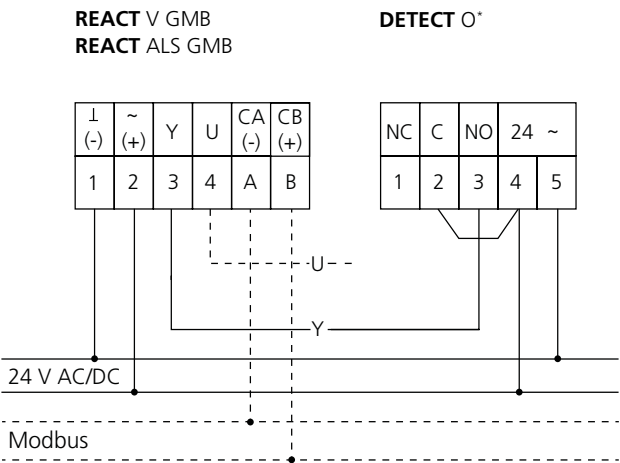
Mode : 0 (2)-10 V

Setpoint source : Analogue

Bus protocol : Modbus

The damper will indicate "Test" on the display when boosting (occupancy) to show it is manually boosted.

Wiring diagram



*Modbus communication not available

Notes

Air flow control with temperature and CO₂ function

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in the room.

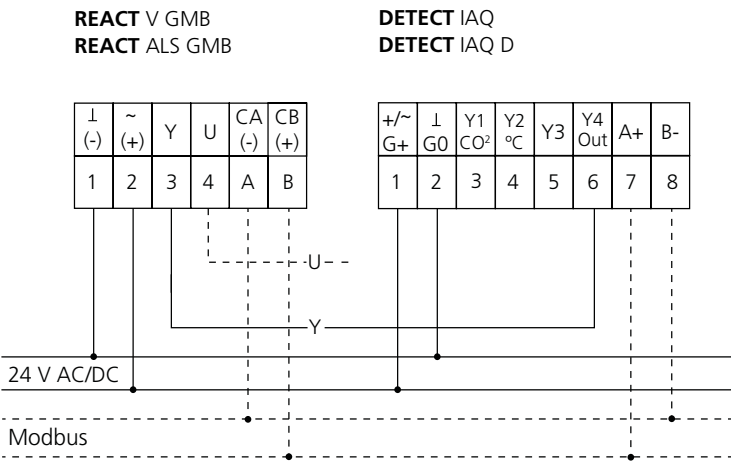
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature, CO₂ and occupancy function

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the internal occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode.

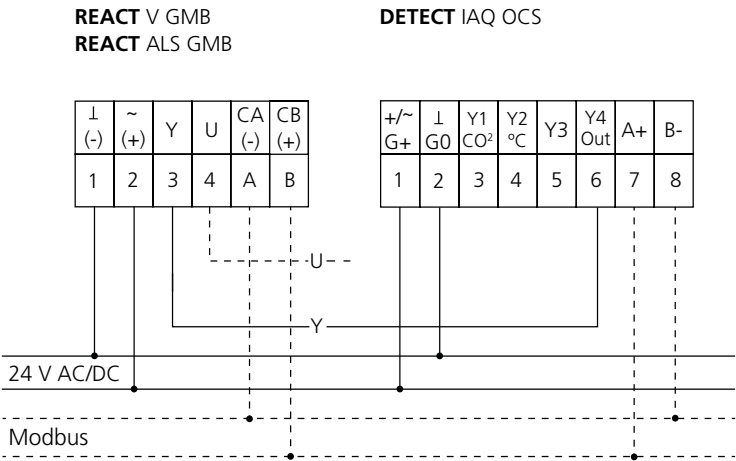
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature and CO₂ function via external occupancy detector

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected in the room via the external occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode.

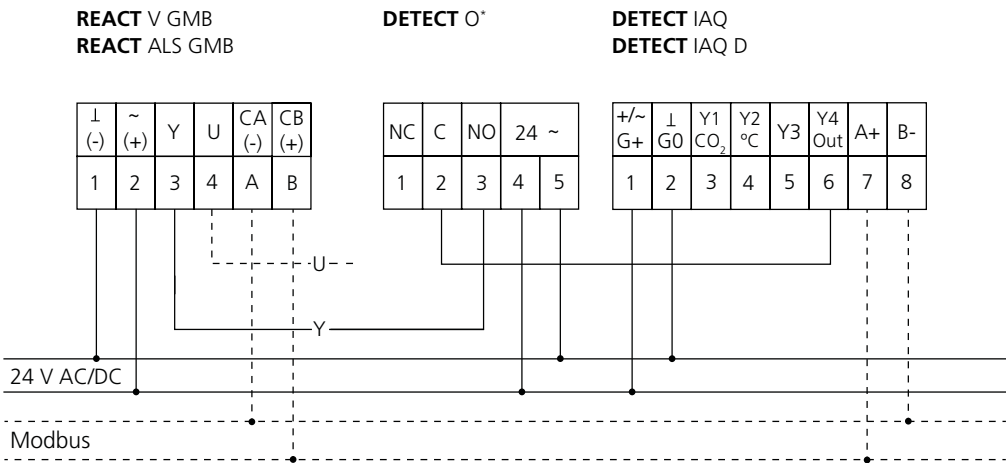
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Air flow control with temperature controller for demand control and temperature adjustment

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the set temperature set point. The wiring diagram also shows alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

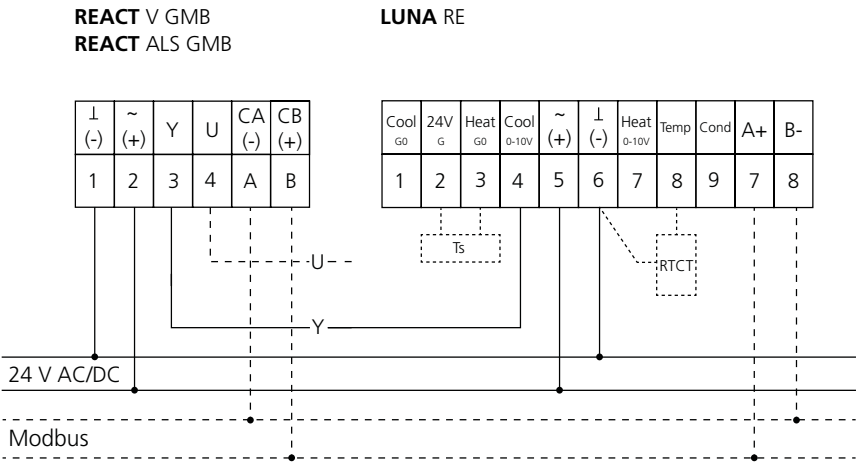
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature controller for demand control and temperature adjustment

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the set temperature set point. Control of thermo-actuators for cooling/heating.

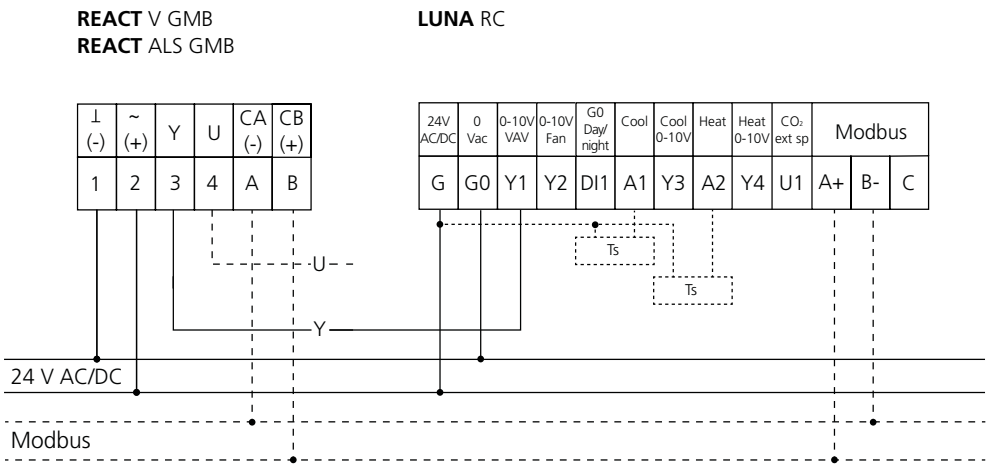
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature and CO₂ controller for demand control and temperature adjustment

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the set temperature set point (cooling function) and the CO₂ content in the room. Control of thermo-actuators for cooling/heating.

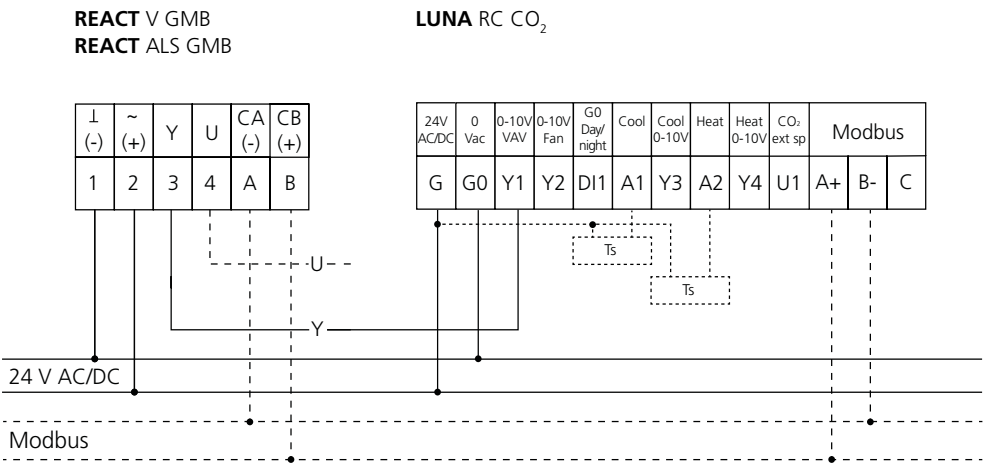
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with controller for demand control

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal.

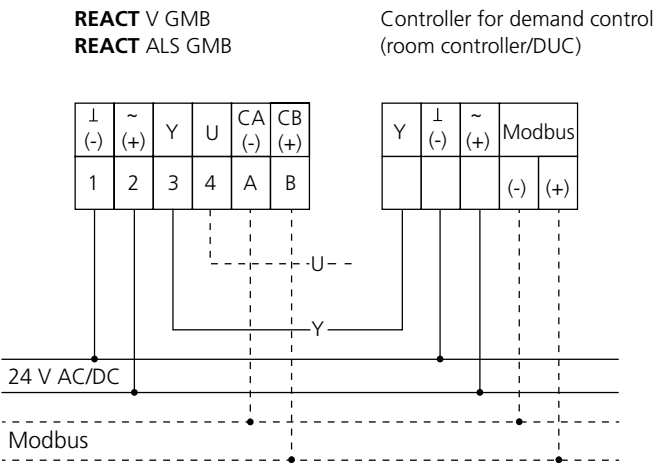
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature controller and temperature adjustment for demand control and via external occupancy detector

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the set temperature set point in occupancy mode. The room is regulated to minimum flow rate in no-occupancy mode. Occupancy is detected via the external occupancy detector. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

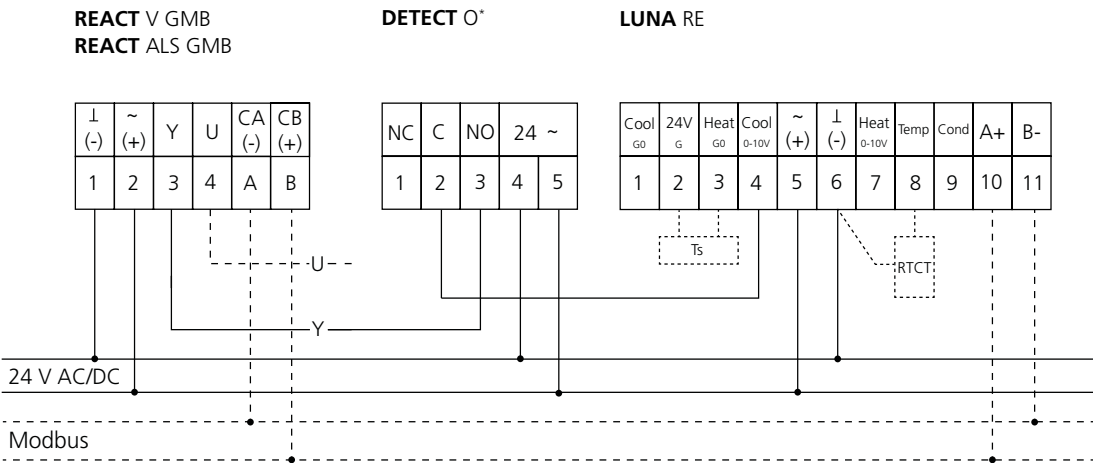
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Air flow control with controller for demand control via external occupancy detector

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal in occupancy mode. The room is regulated to minimum flow rate in no-occupancy mode. Occupancy is detected via the external occupancy detector.

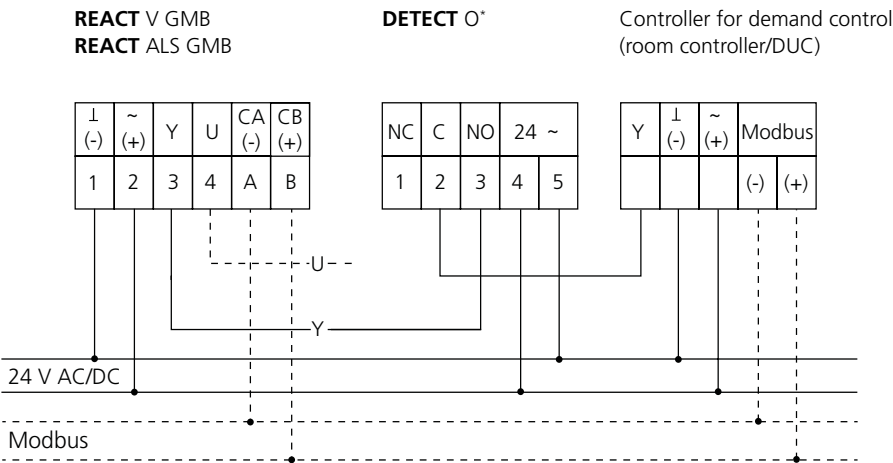
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Air flow control with temperature controller for demand control and absence control

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the temperature set point in occupancy mode. The room is set to absence temperature set point in no-occupancy mode. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

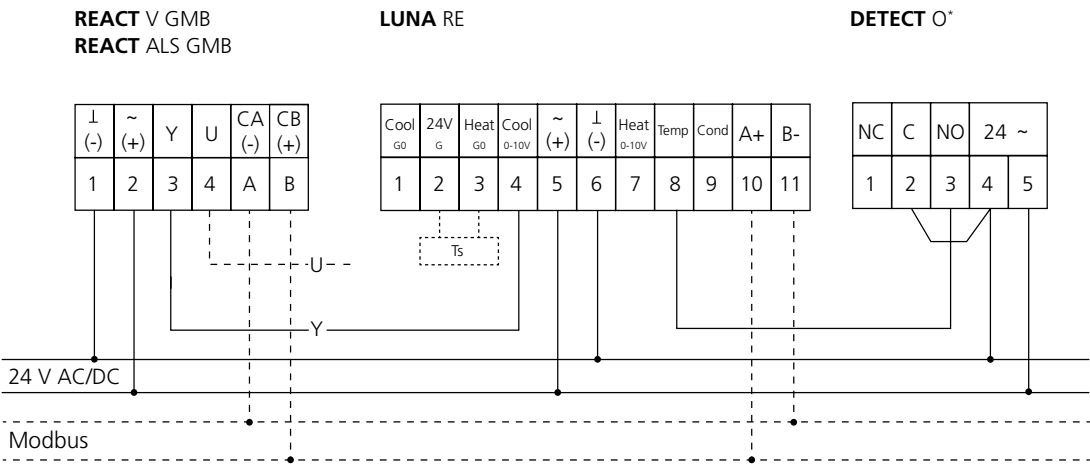
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Air flow control with demand control via Modbus communication

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the set demand.

Demand control via Modbus communication.
Potential for Modbus control/communication only.

Settings

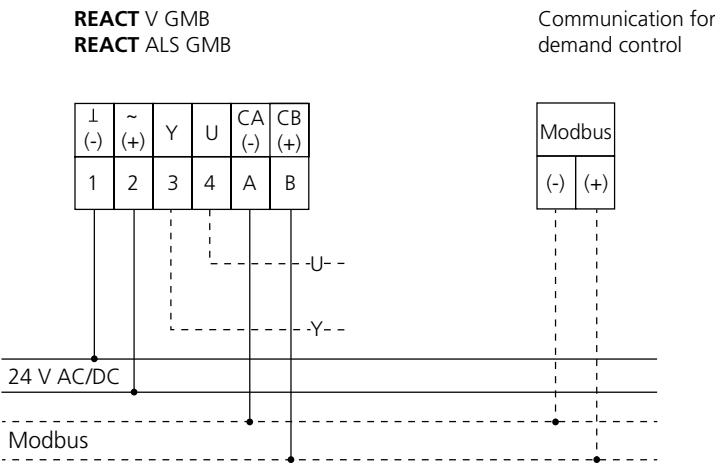
Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Setpoint source : Bus
- Bus protocol : Modbus

Modbus

- Set point source (address 122) : 1 or 2
- Set point (address 0) : 0...10000
- 0 = 0% (min. flow), 10000 = 100% (max. flow)
- For further information, see the Modbus documentation for REACT Gruner.

Wiring diagram



Notes

Parallel controlled air flow control

Air flow measuring and regulating damper that variably controls the air flow in parallel between the minimum and maximum flow rate depending on the control signal.

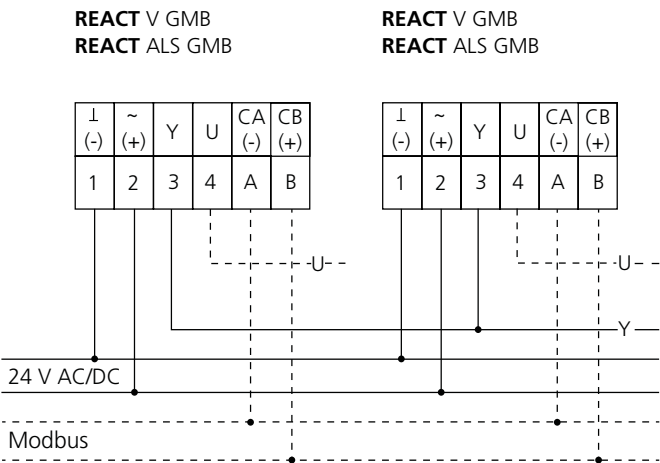
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled two-flow control with occupancy detector

Air flow measuring and regulating damper that controls the air flow on the set position. Via occupancy detection, the dampers switch between absence flow and occupancy flow.

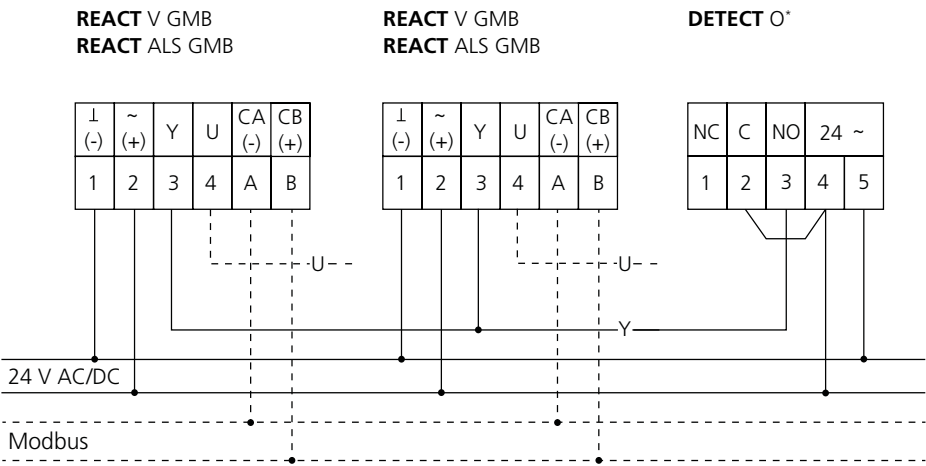
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Unoccupied flow
- Vmax : Occupancy flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus
- The dampers will indicate "Test" on the display when boosting (occupancy) to show they are manually boosted.

Wiring diagram



*Modbus communication not available

Notes

Parallel controlled air flow control with temperature and CO₂ function

Air flow measuring and regulating damper that variably control the air flow in parallel between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in the room.

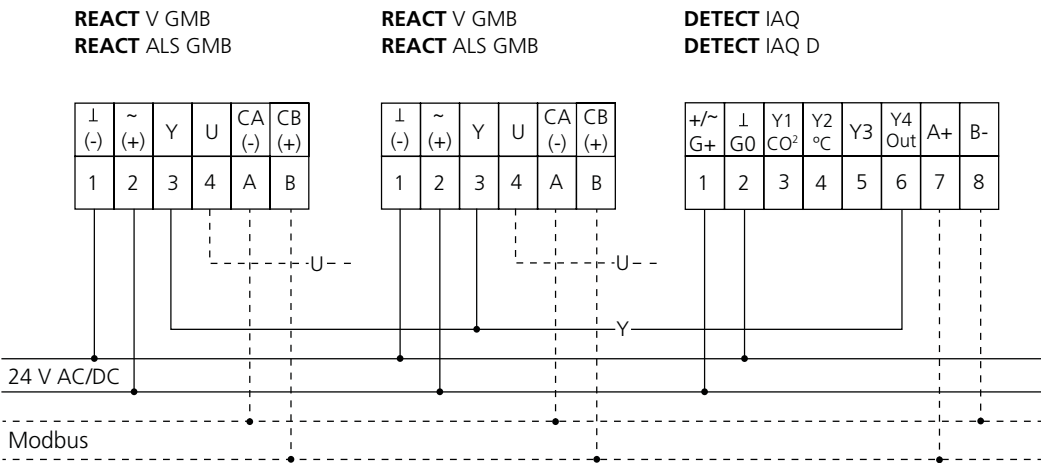
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled air flow control with temperature, CO₂ and occupancy function

Air flow measuring and regulating dampers that variably control the air flow in parallel between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the internal presence sensor. The damper regulates to minimum flow rate in no-occupancy mode.

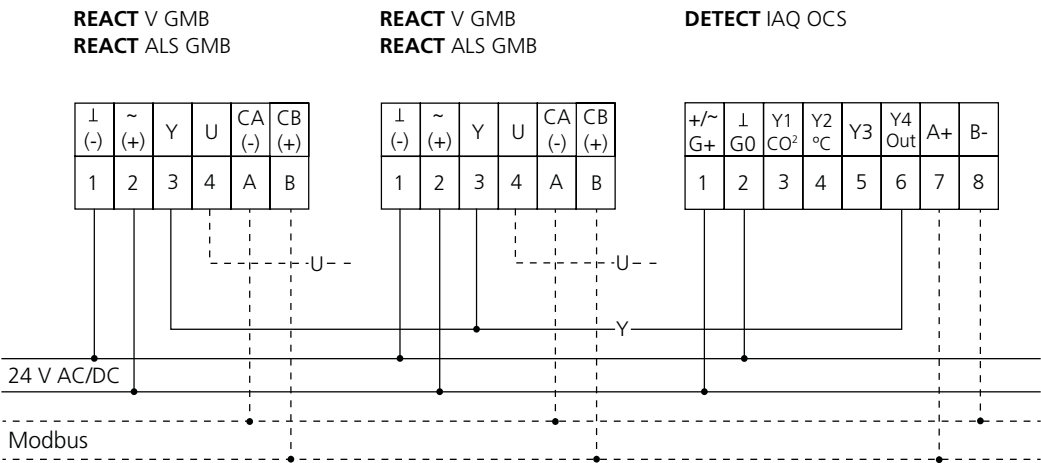
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled air flow control with temperature and CO₂ function via external occupancy detector

Air flow measuring and regulating dampers that variably control the air flow in parallel between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the external occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode.

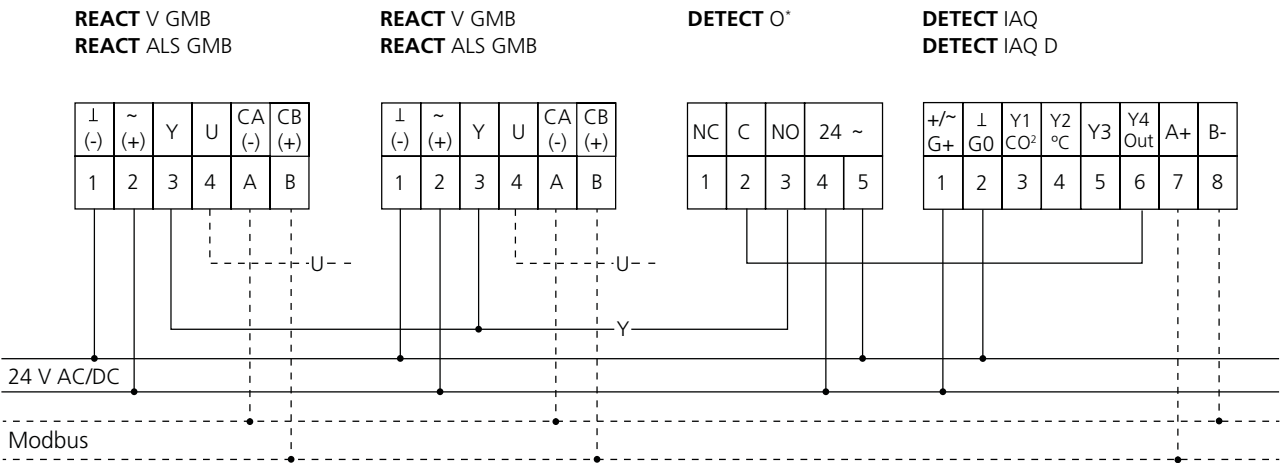
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Parallel controlled air flow control with temperature controller for demand control and temperature adjustment

Air flow measuring and regulating damper that variably controls the air flow in parallel between the minimum and maximum flow rate (cooling function) depending on the set temperature set point. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

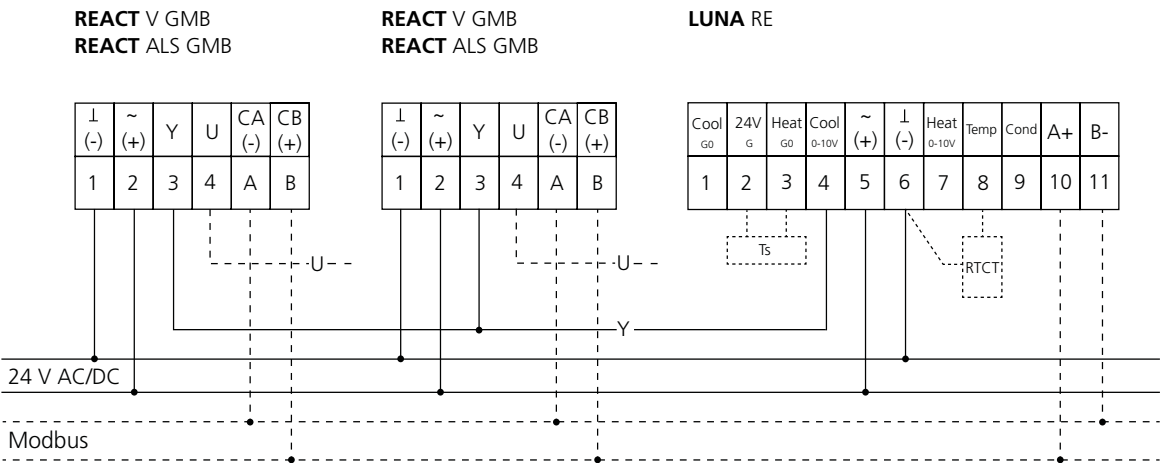
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled air flow control with controller for demand control

Air flow measuring and regulating damper that variably controls the air flow in parallel between the minimum and maximum flow rate depending on the control signal.

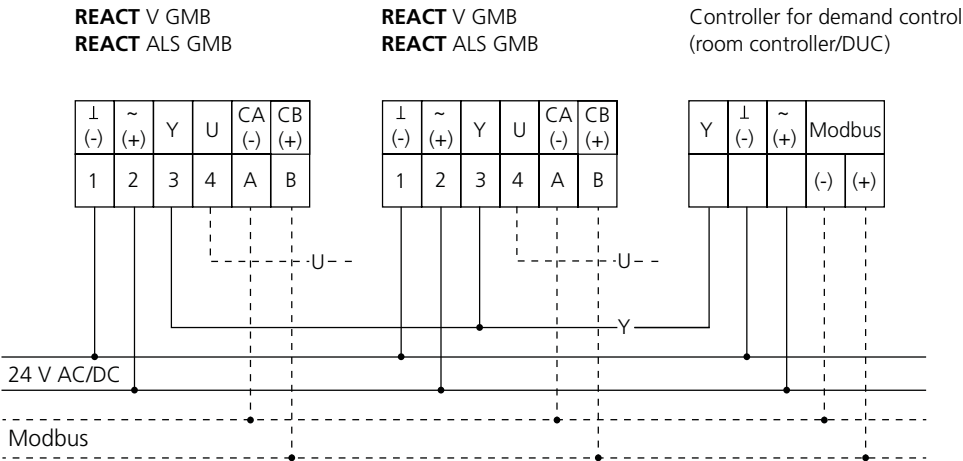
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled air flow control with controller for demand control via external occupancy detector

Air flow measuring and regulating damper that variably controls the air flow in parallel between the minimum and maximum flow rate depending on the control signal in occupancy mode. Occupancy is detected via the external occupancy detector. The room is regulated to minimum flow rate in no-occupancy mode.

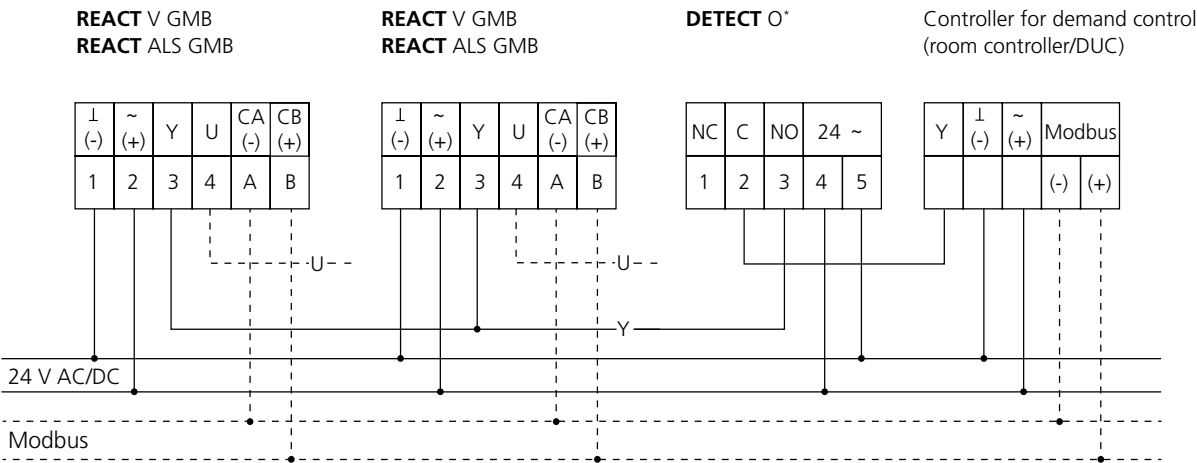
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Parallel controlled air flow control with temperature controller for demand control and absence control

Air flow measuring and regulating damper that variably controls the air flow in parallel between the minimum and maximum flow rate (cooling function) depending on the temperature set point in occupancy mode. The room is set to absence temperature set point in no-occupancy mode. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

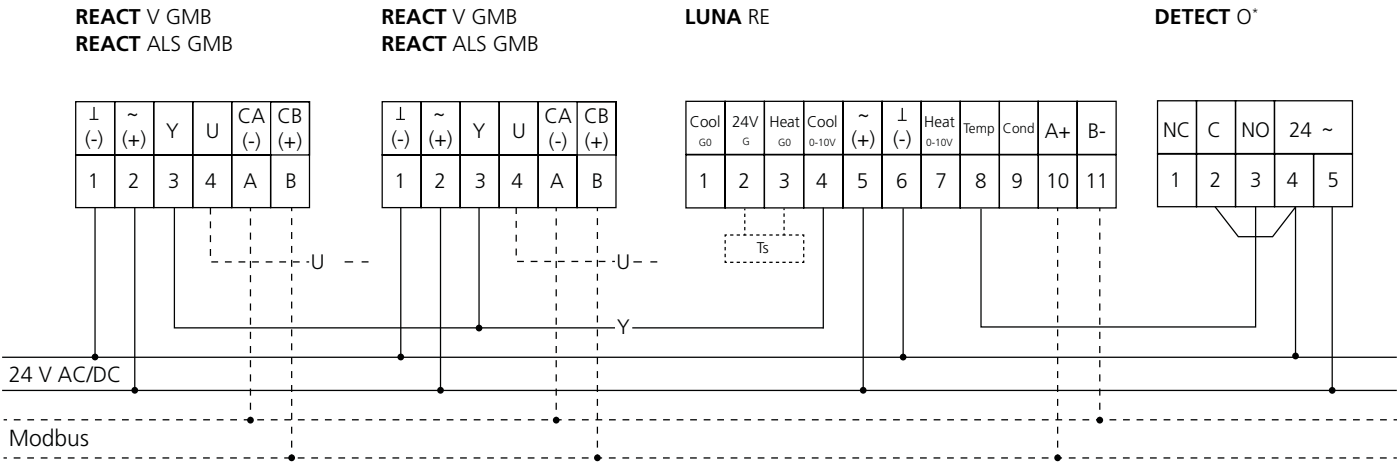
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Balanced air flow control

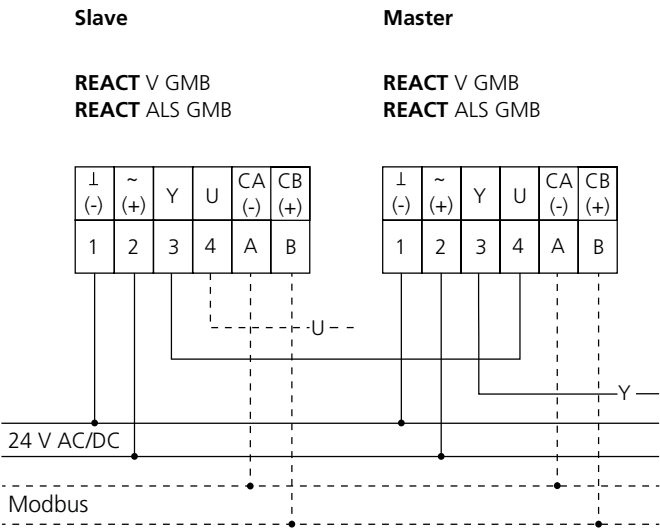
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



Notes

Balanced two-flow control with occupancy detector

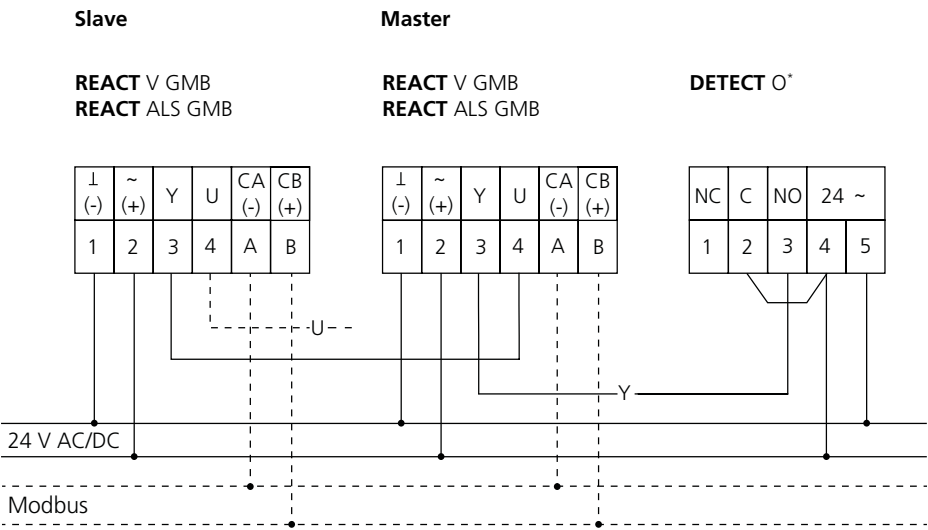
Air flow measuring and regulating damper that controls the air flow on the set position. Via occupancy detection, the damper switches between absence flow and occupancy flow. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Unoccupied flow
Vmax	: Vnom on Master	Vmax	: Occupancy flow
Mode	: Same as Master	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



*Modbus communication not available

Notes

Balanced air flow control with temperature and CO₂ function

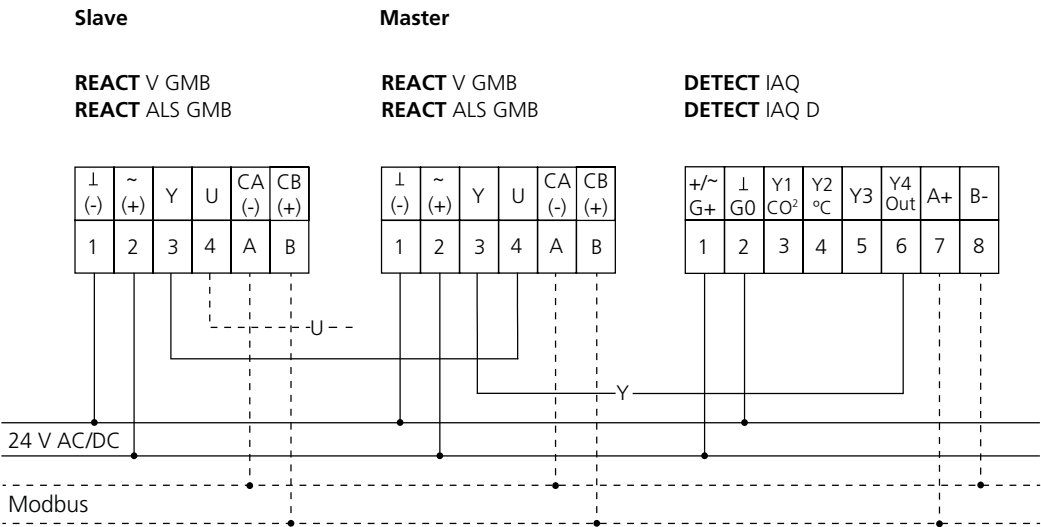
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in the room. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 - 10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



Notes

Balanced air flow control with temperature, CO₂ and occupancy function

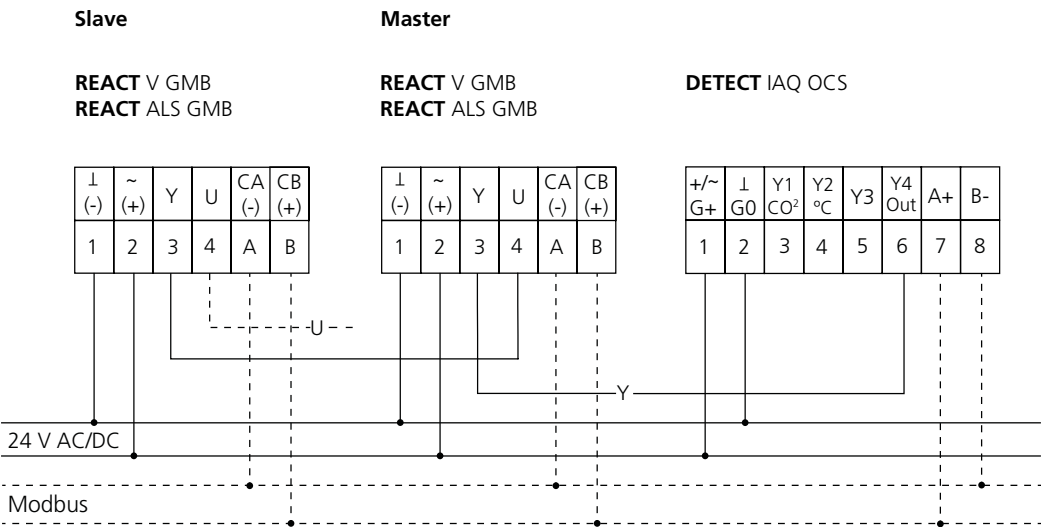
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the internal presence sensor. The damper regulates to minimum flow rate in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



Notes

Balanced air flow control with temperature and CO₂ function via external occupancy detector

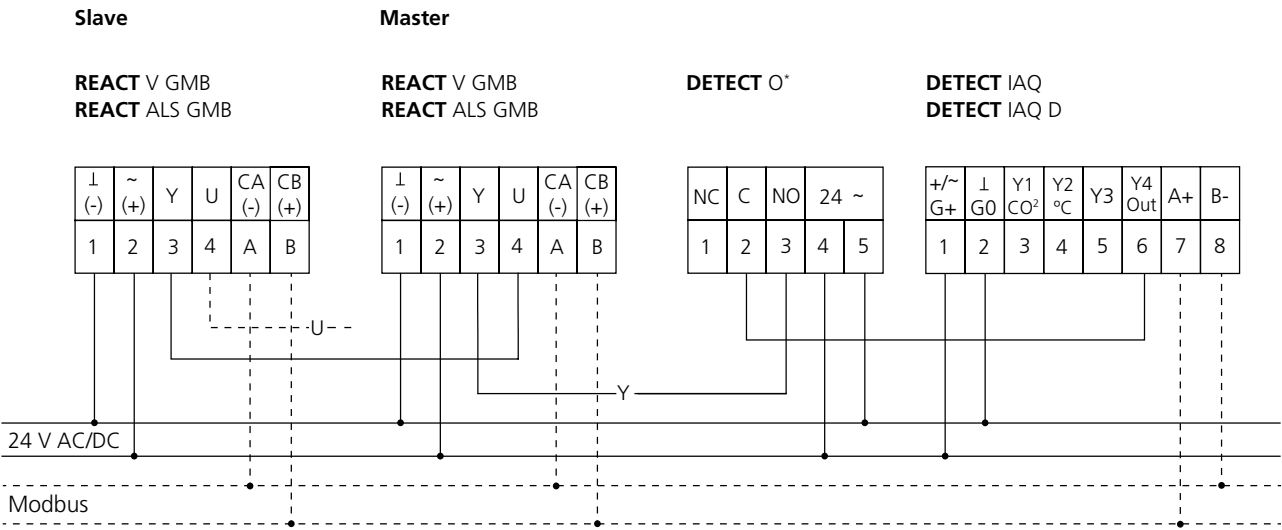
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the external occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 - 10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



*Modbus communication not available

Notes

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Bus protocol : Modbus

Wiring diagram

Notes

Balanced air flow control with controller for demand control

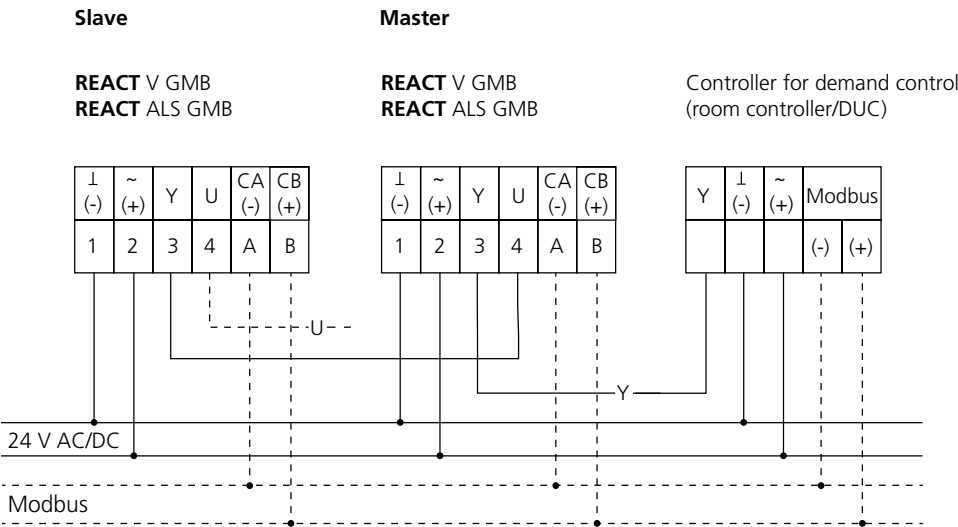
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



Notes

Balanced air flow control with temperature controller and temperature adjustment for demand control via external occupancy detector

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the set temperature set point in occupancy mode. Occupancy is detected via the external occupancy detector. The room is regulated to minimum flow rate in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room. The wiring diagram also shows alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

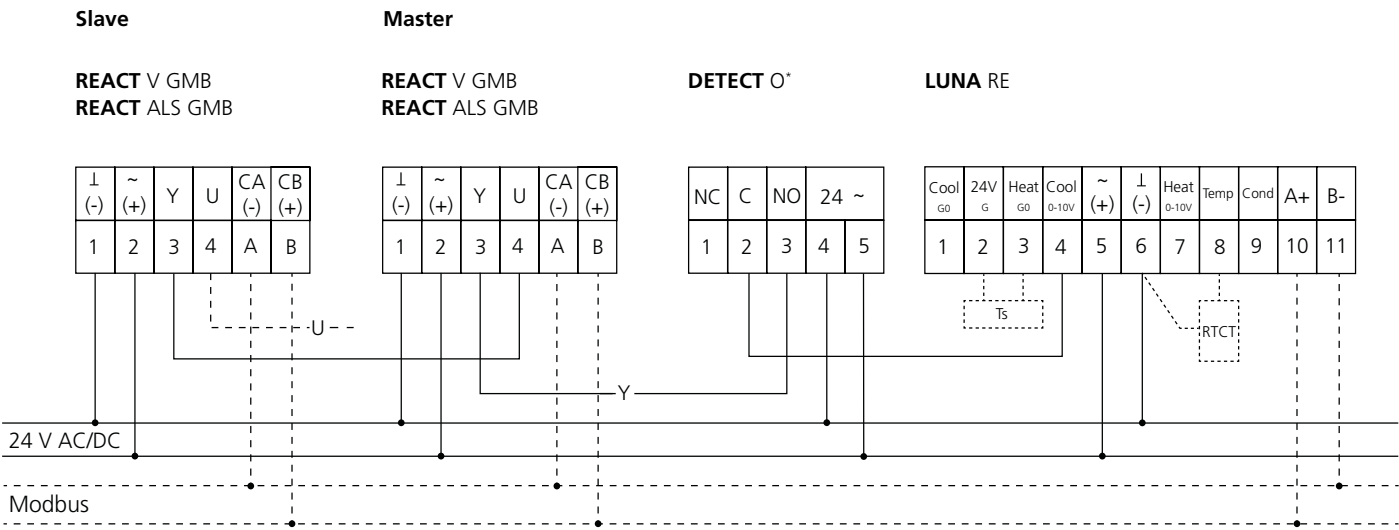
Air flow control – Slave

- Vmin : 0
- Vmax : Vnom on Master
- Mode : Same as Master
- Setpoint source : Analogue
- Bus protocol : Modbus

Air flow control – Master

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Balanced air flow control with controller for demand control via external occupancy detector

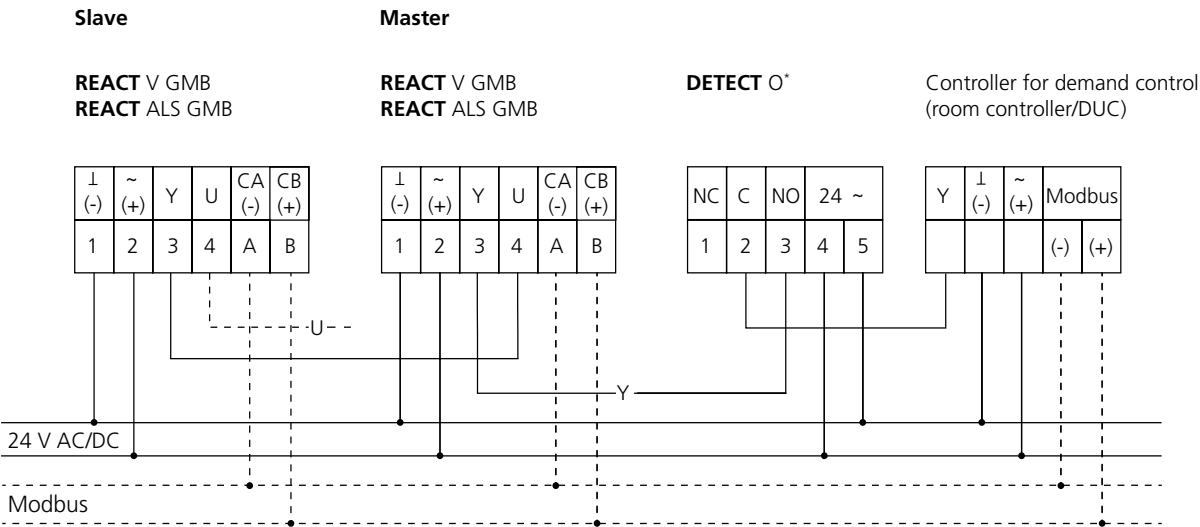
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal in occupancy mode. Occupancy is detected via the external occupancy detector. The room is regulated to minimum flow rate in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



*Modbus communication not available

Notes

Balanced air flow control with temperature controller for demand control and absence control

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the temperature set point in occupancy mode. The room is set to absence set point in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain balance in the room. The wiring diagram also shows alternative with RTCT duct temperature sensor and thermo-actuator (heating function).

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

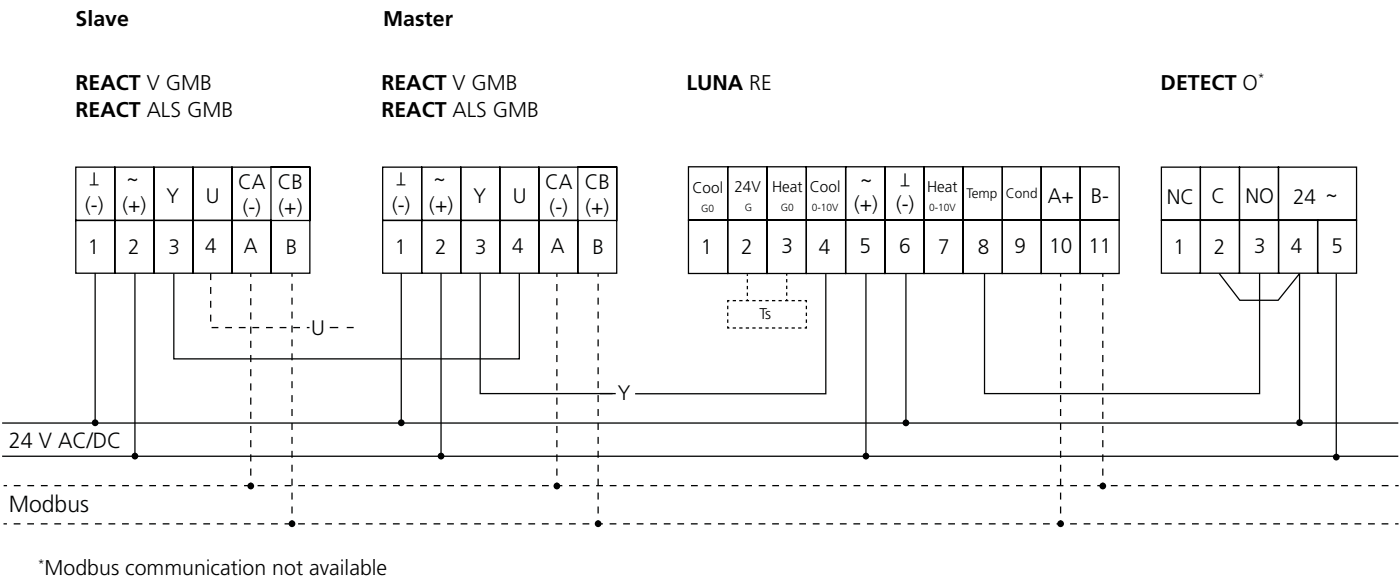
Air flow control – Slave

- Vmin : 0
- Vmax : Vnom on Master
- Mode : Same as Master
- Setpoint source : Analogue
- Bus protocol : Modbus

Air flow control – Master

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow measurement

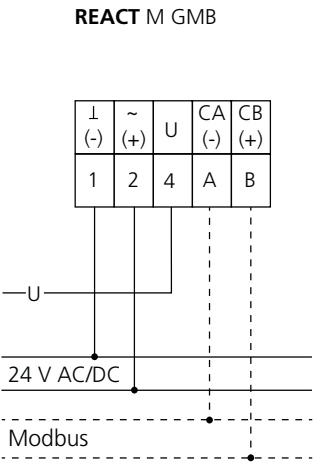
Air flow measuring unit that variably sends out the air flow value depending on the minimum and maximum flow rate.
Return of the current air flow via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow measurement

- Vmin : Set value for min. actual value signal (0/2 V)
- Vmax : Set value for max. actual value signal (10 V)
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow measurement with slave-controlled air flow control

The air flow value from the measuring unit is sent analogously to the slave damper depending on the minimum and maximum flow rate to maintain balance in the room with or without offset.

Return of the current air flow via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

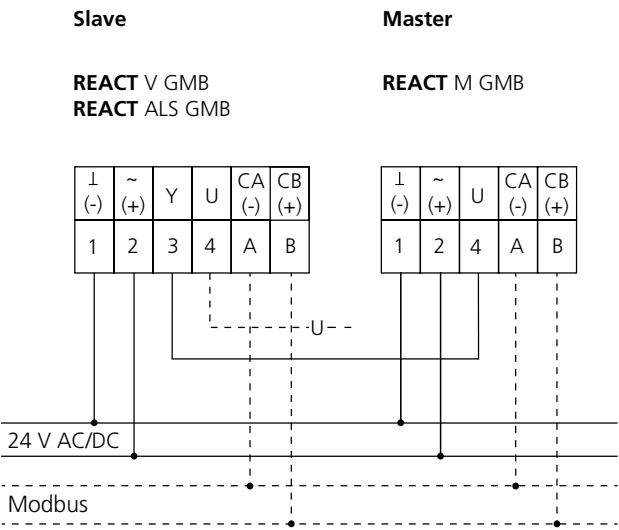
Air flow control – Slave

- Vmin : Same as Master ± offset
- Vmax : Same as Master ± offset
- Mode : Same as Master
- Setpoint source : Analogue
- Bus protocol : Modbus

Air flow measurement – Master

- Vmin : Set value for min. actual value signal (0/2 V)
- Vmax : Set value for max. actual value signal (10 V)
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Constant pressure regulation

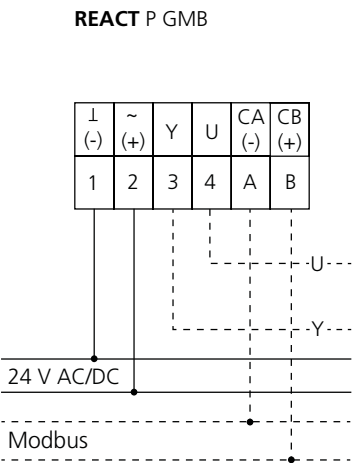
Pressure measuring and regulating damper to maintain the set pressure.
Return of the current pressure via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation

- Pmin : Constant pressure
- Pmax : 0
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus
- Indicates "Test" on the display.

Wiring diagram



Notes

Constant pressure regulation with external regulator

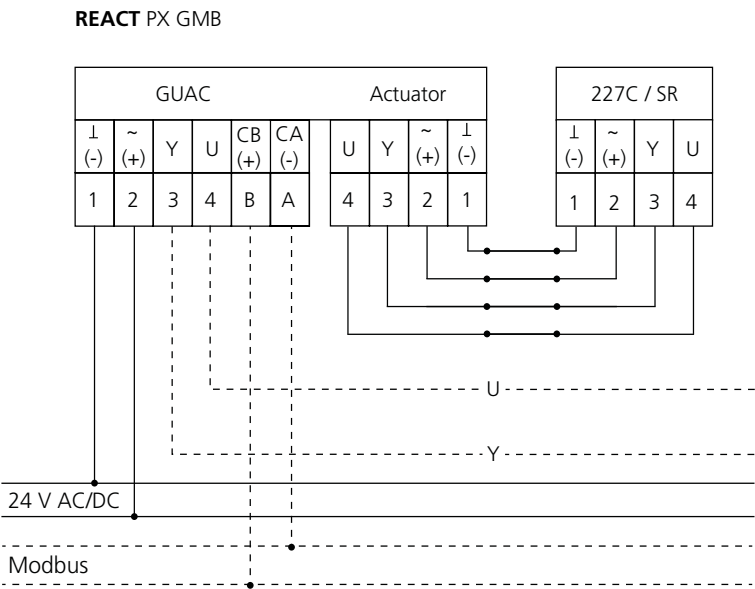
Pressure measuring and regulating damper with an external regulator to maintain the set pressure.
Return of the current pressure via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation

- Pmin : Consistent pressure
- Pmax : 0
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus
- Indicates "Test" on the display.

Wiring diagram



Notes

Pressure regulation

Pressure measuring and regulating damper that variably regulates between the min. and max. pressure depending on the control signal.

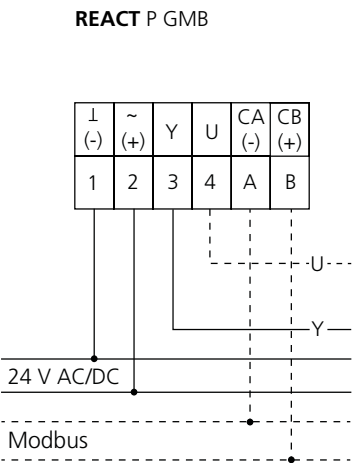
Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation

- Pmin : Min. pressure
- Pmax : Max. pressure
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Pressure regulation with external regulator

Pressure measurement and regulating damper that variably regulates between the min. and max. pressure depending on the control signal.

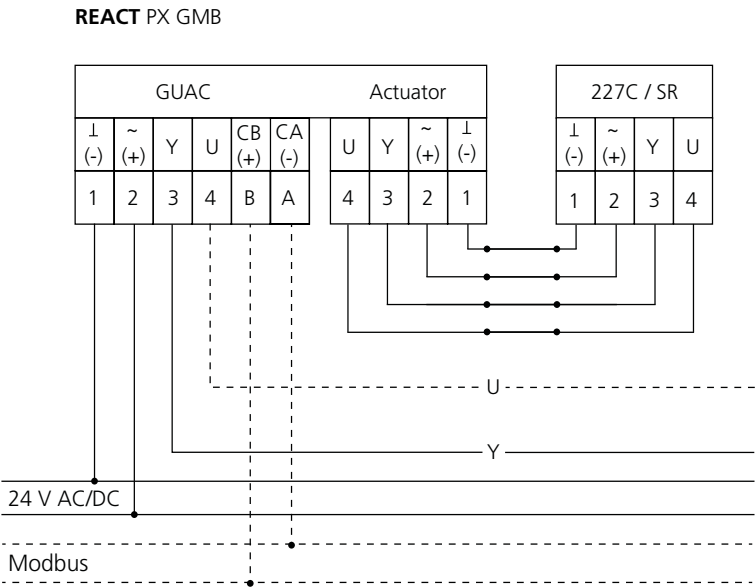
Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation

- Pmin : Min. pressure
- Pmax : Max. pressure
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled pressure regulation

Pressure measuring and regulating damper that variably regulates the duct pressure in parallel between the min. and max. pressure depending on the control signal.

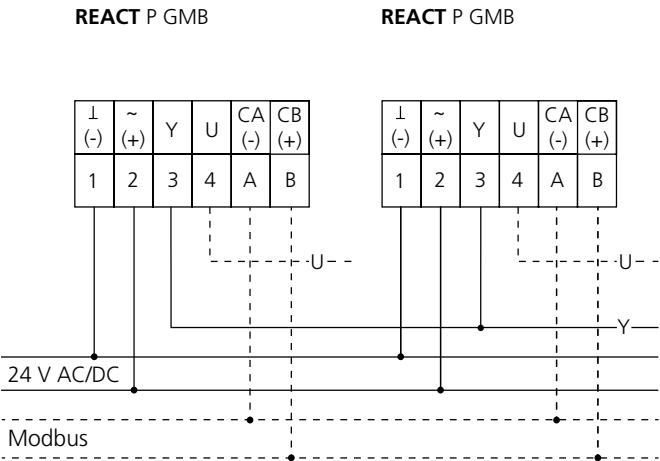
Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation

- Pmin : Min. pressure
- Pmax : Max. pressure
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled pressure regulation with external regulator

Pressure measuring and regulating damper with external regulator that variably regulates the duct pressure in parallel between the min. and max. pressure depending on the control signal.

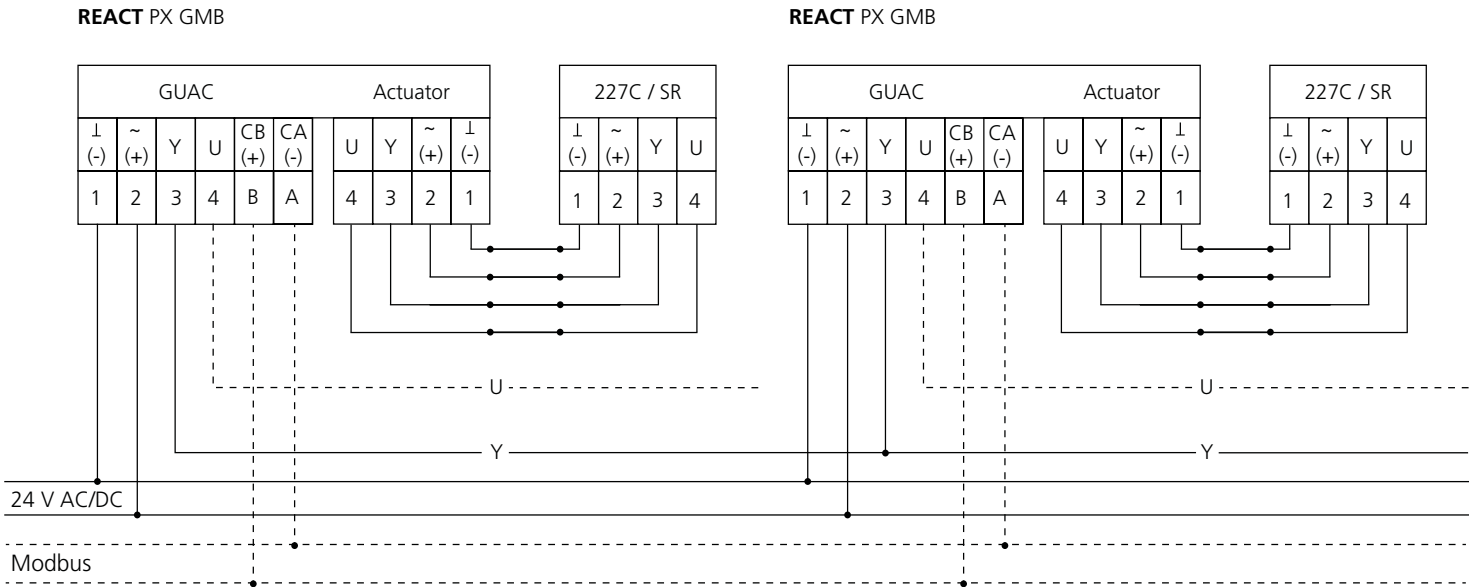
Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation

- Pmin : Min. pressure
- Pmax : Max. pressure
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Balanced pressure regulation

Pressure measurement and regulating damper that variably regulates between the min. and max. pressure depending on the control signal. The actual pressure value from the master damper is sent analogously to the slave damper to maintain balance.

Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

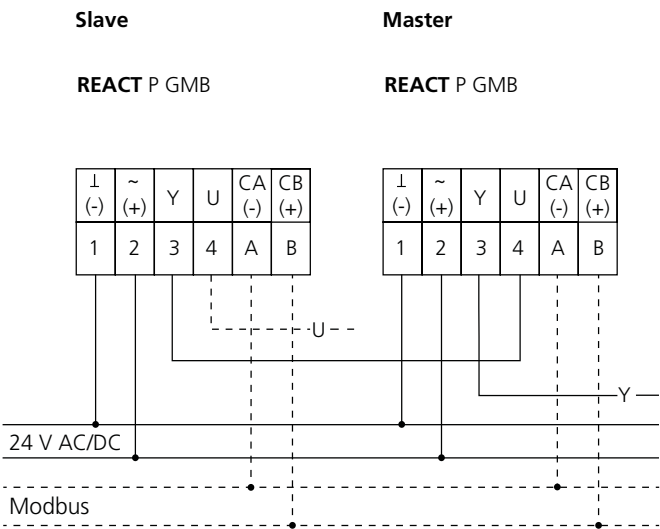
Pressure regulation – Slave

Pmin : 0
Pmax : Nominal pressure on Master
Mode : Same as Master
Setpoint source : Analogue
Bus protocol : Modbus

Pressure regulation – Master

Pmin : Min. pressure
Pmax : Max. pressure
Mode : 0 (2)-10 V
Setpoint source : Analogue
Bus protocol : Modbus

Wiring diagram



Notes

Balanced pressure regulation with external regulator

Pressure measuring and regulating damper with external regulator that variably regulates between the min. and max. pressure depending on the control signal. The actual pressure value from the master damper is sent analogously to the slave damper to maintain the balance.

Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation – Slave

- Pmin : 0
- Pmax : Nominal pressure on Master
- Mode : Same as Master
- Setpoint source : Analogue
- Bus protocol : Modbus

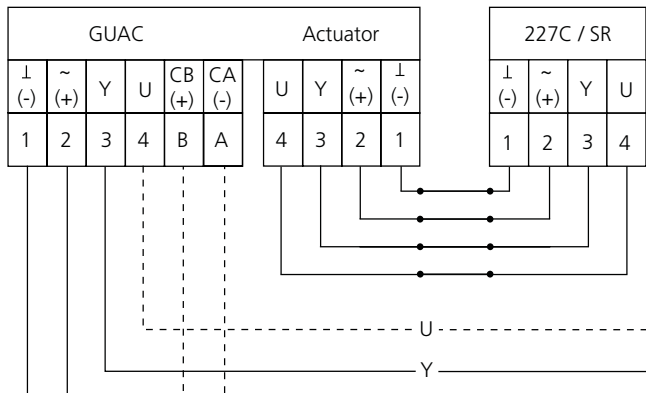
Pressure regulation – Master

- Pmin : Min. pressure
- Pmax : Max. pressure
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram

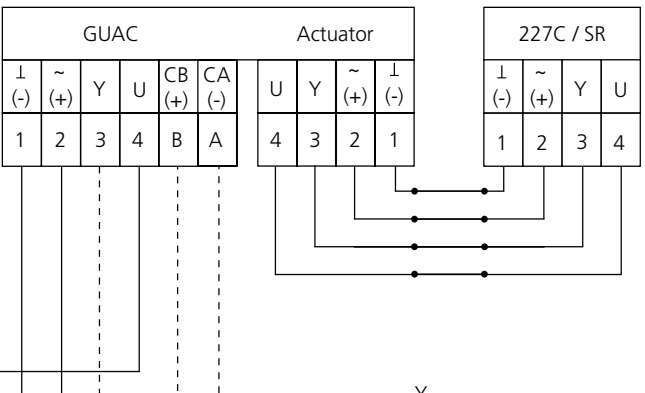
Slave

REACT PX GMB



Master

REACT PX GMB



Notes

Constant pressure regulation and air flow measurement with slave-controlled air flow control

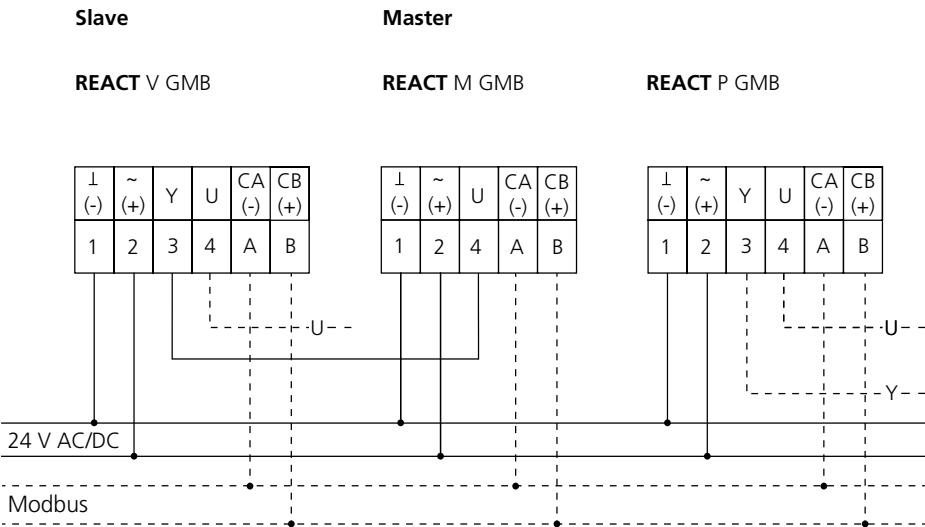
REACT P GMB measures and regulates to maintain the set air pressure. The actual air flow value from REACT M GMB is sent analogously to the slave damper REACT V GMB. Depending on the min. and max. flows, the air flow balance is maintained with or without offset.

Return of the current pressure/air flow via analogue actual value signal (U).
 Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave	Air flow measurement – Master	Pressure regulation
Vmin : Same as Master ± offset	Vmin : Set value for min. actual value signal (0/2 V)	Pmin : Consistent pressure
Vmax : Same as Master ± offset	Vmax : Set value for max. actual value signal (10 V)	Pmax : 0
Mode : Same as Master	Mode : 0 (2)-10 V	Mode : 0 (2)-10 V
Setpoint source : Analogue	Setpoint source : Analogue	Setpoint source : Analogue
Bus protocol : Modbus	Bus protocol : Modbus	Bus protocol : Modbus
		Indicates "Test" on the display.

Wiring diagram



Notes

Constant pressure regulation with external regulator and air flow measurement with slave-controlled air flow control

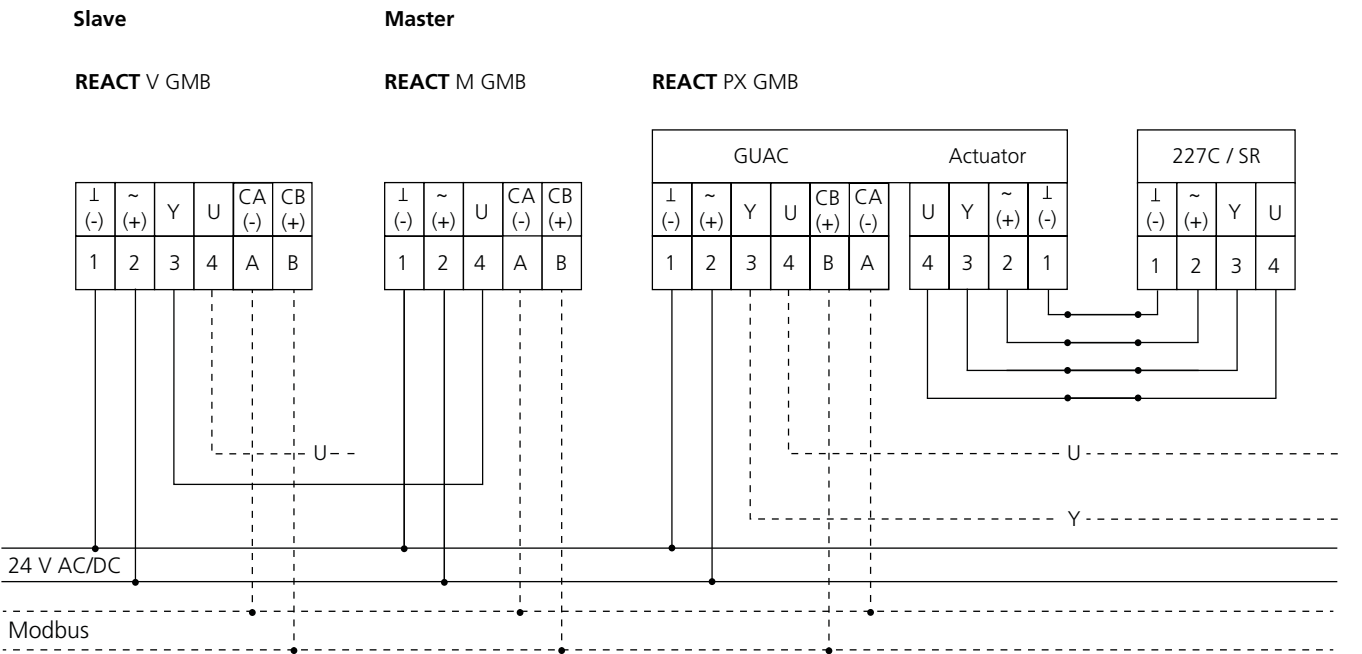
REACT PX GMB measures and regulates with an external regulator to maintain the set pressure. The actual air flow value from REACT M GMB is sent analagously to the slave damper REACT V GMB. Depending on the min. and max. flows, the air flow balance is maintained with or without offset.

Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow measurement – Master		Pressure regulation	
Vmin	: Same as Master ± offset	Vmin	: Set value for min. actual value signal (0/2 V)	Pmin	: Consistent pressure
Vmax	: Same as Master ± offset	Vmax	: Set value for max. actual value signal (10 V)	Pmax	: 0
Mode	: Same as Master	Mode	: 0 (2)-10 V	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus	Bus protocol	: Modbus
					Indicates "Test" on the display.

Wiring diagram



Notes

Pressure regulation and air flow measurement with slave-controlled air flow control

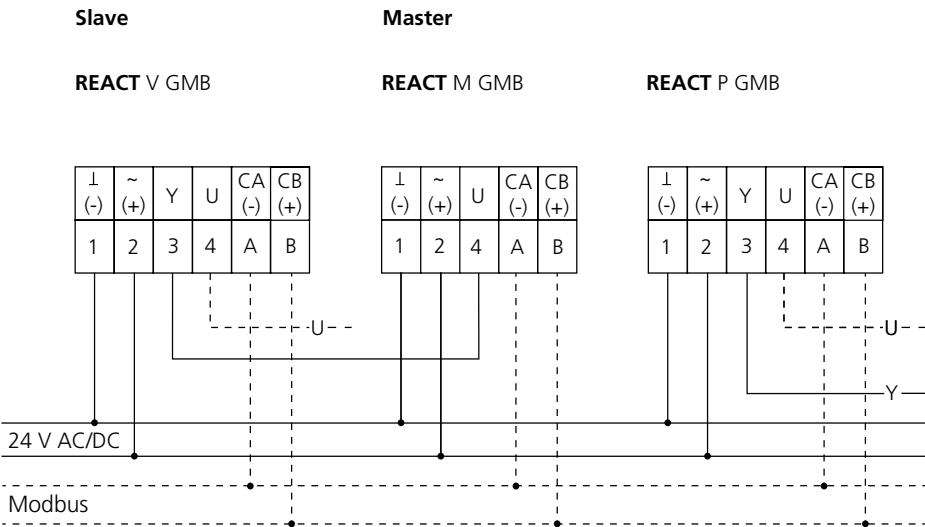
REACT P GMB measures and regulates variably between the min. and max. pressure depending on the control signal. The actual air flow value from REACT M GMB is sent analagously to the slave damper REACT V GMB. Depending on the min. and max. flows, the air flow balance is maintained with or without offset.

Return of the current pressure/air flow via analogue actual value signal (U).
 Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave	Air flow measurement – Master	Pressure regulation
Vmin : Same as Master ± offset	Vmin : Set value for min. actual value signal (0/2 V)	Pmin : Min. pressure
Vmax : Same as Master ± offset	Vmax : Set value for max. actual value signal (10 V)	Pmax : Max. pressure
Mode : Same as Master	Mode : 0 (2)-10 V	Mode : 0 (2)-10 V
Setpoint source : Analogue	Setpoint source : Analogue	Setpoint source : Analogue
Bus protocol : Modbus	Bus protocol : Modbus	Bus protocol : Modbus
		Indicates "Test" on the display.

Wiring diagram



Notes

Pressure regulation with external regulator and air flow measurement with slave-controlled air flow control

REACT PX GMB measures and regulates with an external regulator variably between the min. and max. pressure depending on the control signal. The actual air flow value from REACT M GMB is sent analogously to the slave damper REACT V GMB. Depending on the min. and max. flows, the air flow balance is maintained with or without offset.

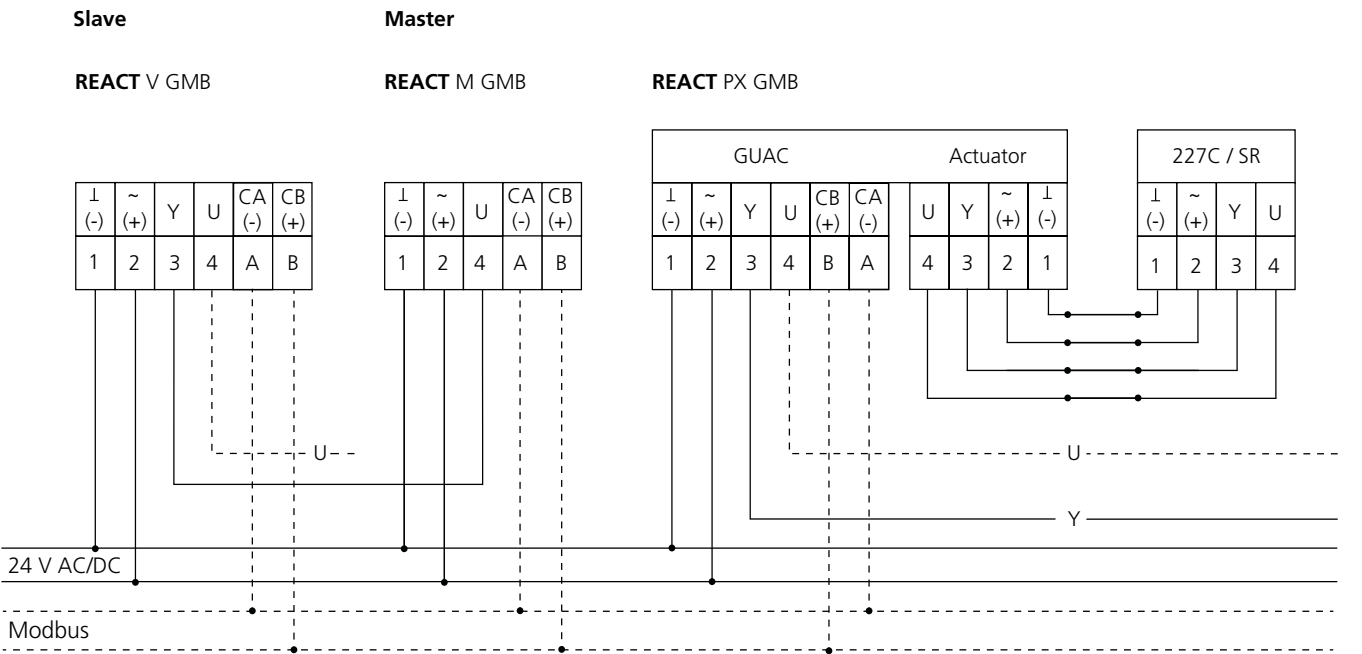
Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U).

Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow measurement – Master		Pressure regulation	
Vmin	: Same as Master ± offset	Vmin	: Set value for min. actual value signal (0/2 V)	Pmin	: Min. pressure
Vmax	: Same as Master ± offset	Vmax	: Set value for max. actual value signal (10 V)	Pmax	: Max. pressure
Mode	: Same as Master	Mode	: 0 (2)-10 V	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus	Bus protocol	: Modbus
					Indicates "Test" on the display.

Wiring diagram



Notes

Constant flow regulation

Air flow measuring and regulating damper to maintain the set air flow.
Potential for Modbus communication in combination with analogue control signals.

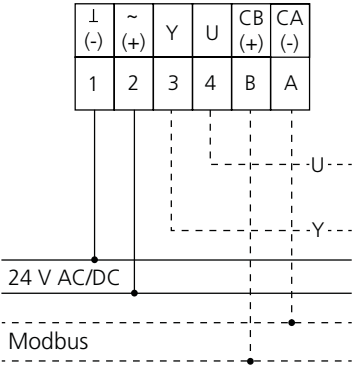
Settings

Air flow control

- Vmin : Constant flow
- Vmax : 0
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus
- Indicates "Test" on the display.

Wiring diagram

REACT V-SR GMB



Notes

Air flow control

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

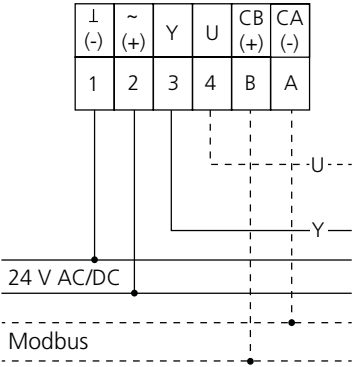
Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram

REACT V-SR GMB



Notes

Two-flow control with occupancy detector

Air flow measuring and regulating damper that controls the air flow on the set position. The damper switches between two fixed flows via occupancy detection.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

Vmin : Unoccupied flow

Vmax : Occupancy flow

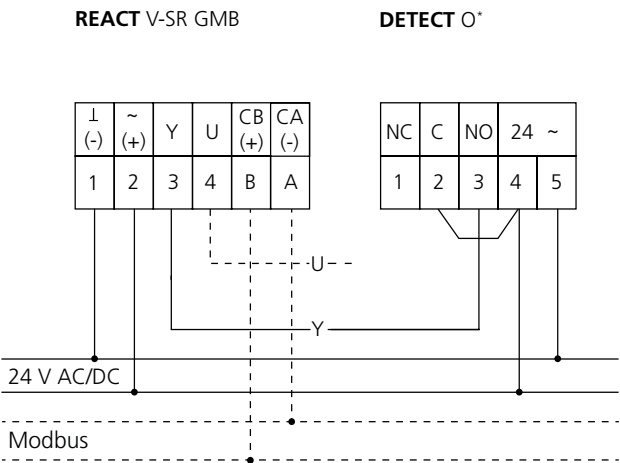
Mode : 0 (2)-10 V

Setpoint source : Analogue

Bus protocol : Modbus

The damper will indicate "Test" on the display when boosting (occupancy) to show it is manually boosted.

Wiring diagram



*Modbus communication not available

Notes

Air flow control with temperature and CO₂ function

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

Vmin : Min. air flow

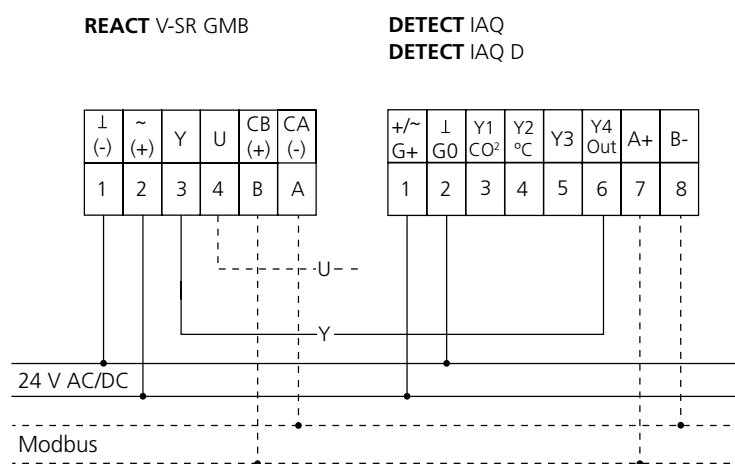
Vmax : Max. air flow

Mode : 0 - 10 V

Setpoint source : Analogue

Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature, CO₂ and occupancy function

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the internal occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode.

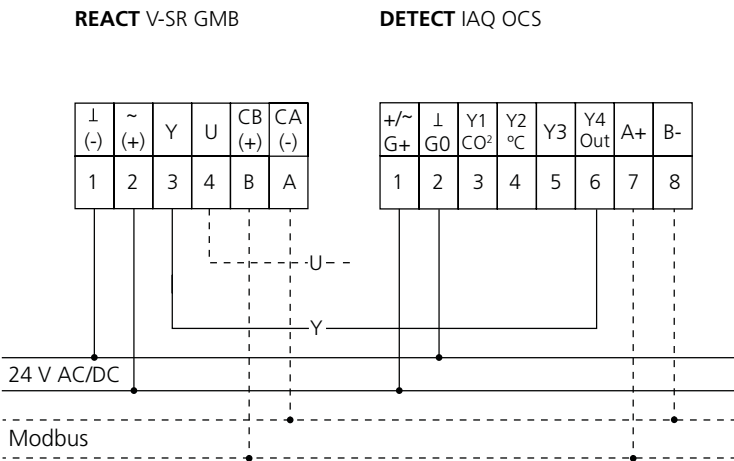
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature and CO₂ function via external occupancy detector

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the external occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode.

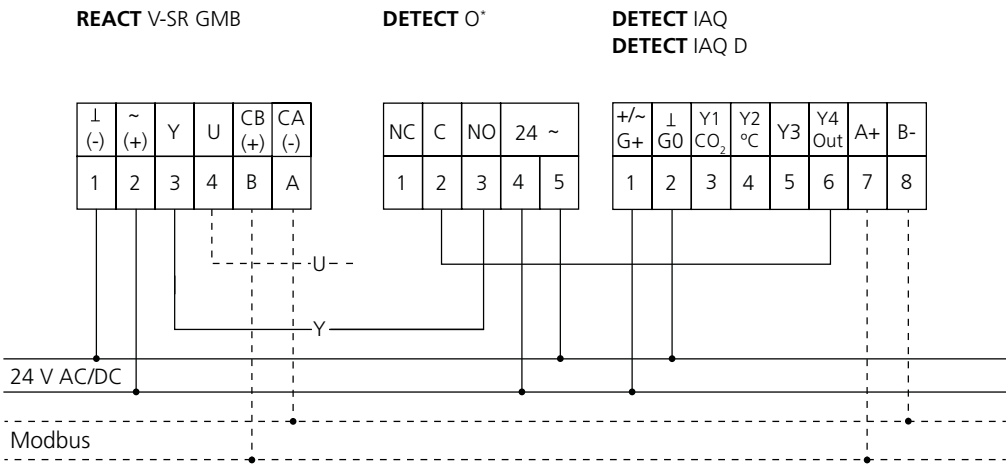
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Air flow control with temperature controller for demand control and temperature adjustment

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the set temperature set point. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

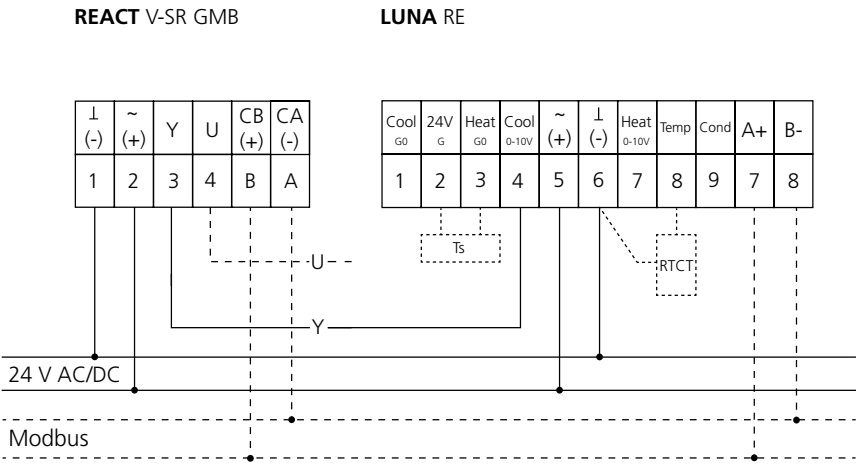
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



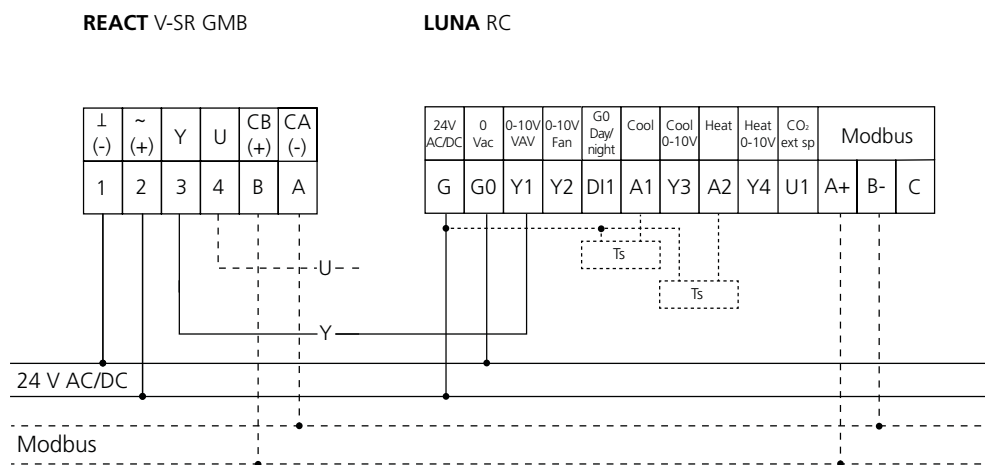
Notes

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Air flow control

Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature and CO₂ controller for demand control and temperature adjustment

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the set temperature set point (cooling function) and the CO₂ content in the room. Control of thermo-actuators for cooling/heating.

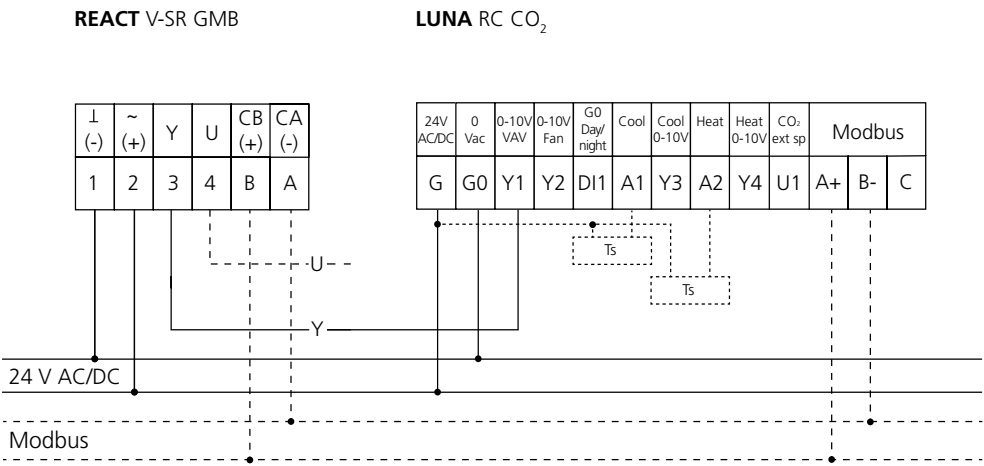
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with controller for demand control

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal.

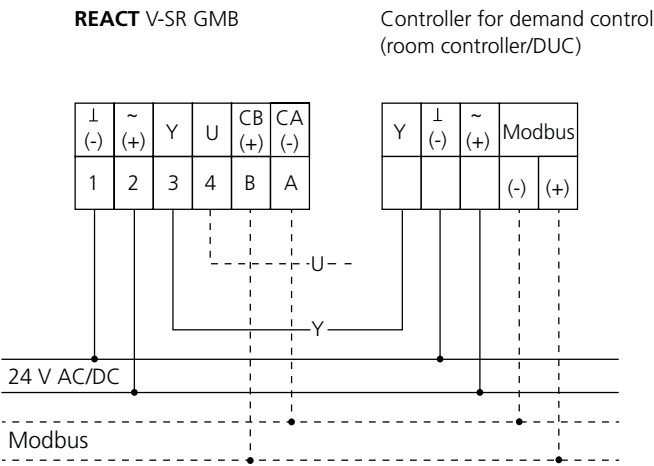
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with temperature controller and temperature adjustment for demand control and via external occupancy detector

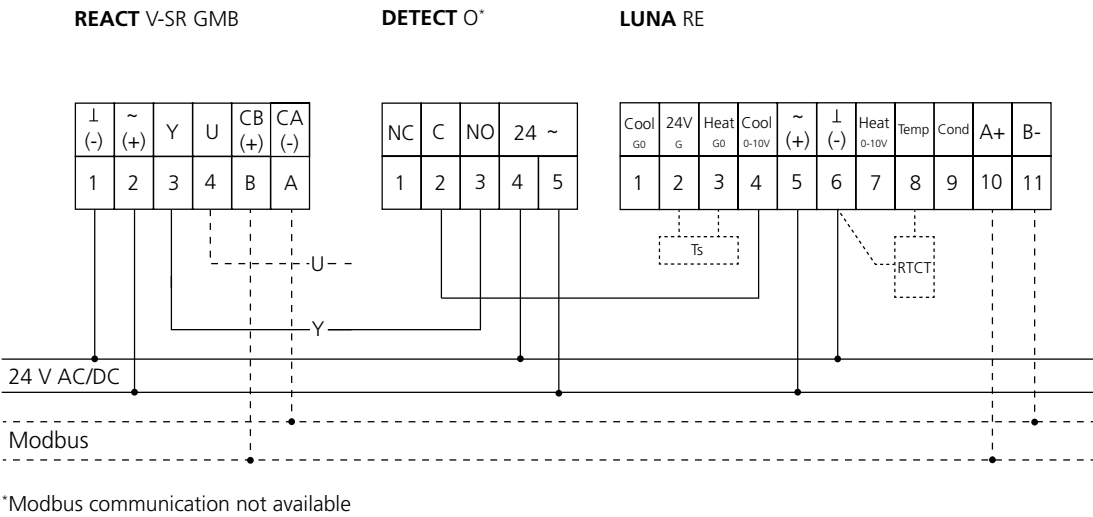
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the set temperature set point in occupancy mode. The room is regulated to minimum flow rate in no-occupancy mode. Occupancy is detected via the external occupancy detector. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

- Air flow control**
- Vmin : Min. air flow
 - Vmax : Max. air flow
 - Mode : 0 (2)-10 V
 - Setpoint source : Analogue
 - Bus protocol : Modbus

Wiring diagram



Notes

Air flow control with controller for demand control via external occupancy detector

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal in occupancy mode. The room is regulated to minimum flow rate in no-occupancy mode. Occupancy is detected via the external occupancy detector.

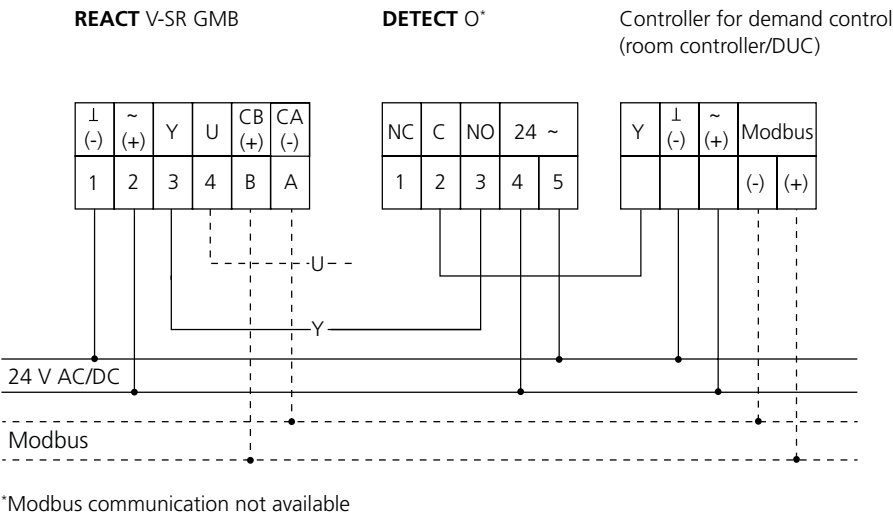
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Air flow control with temperature controller for demand control and absence control

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the temperature set point in occupancy mode. The room is set to absence temperature set point in no-occupancy mode. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

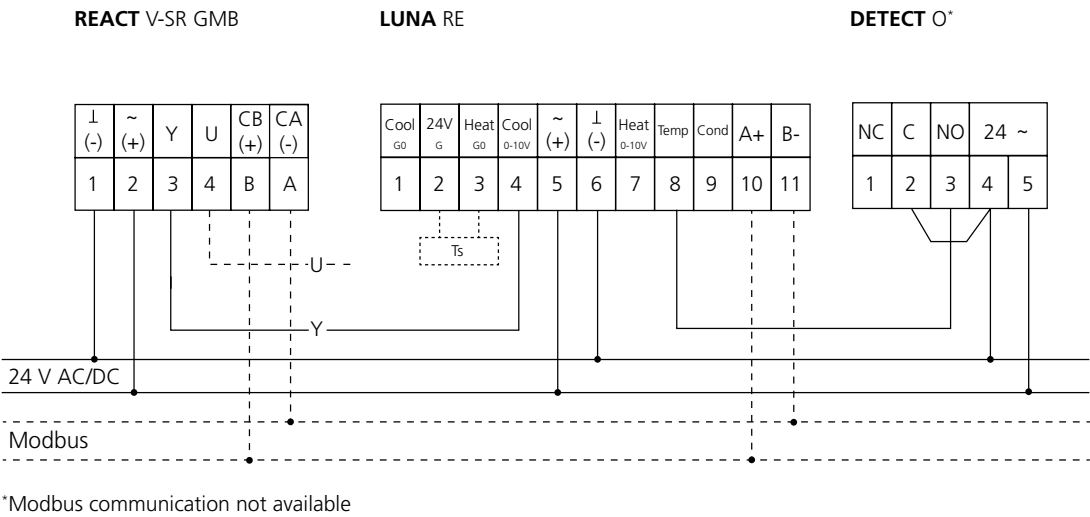
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Air flow control with demand control via Modbus communication

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the set demand.

Demand control via Modbus communication.
Potential for Modbus control/communication only.

Settings

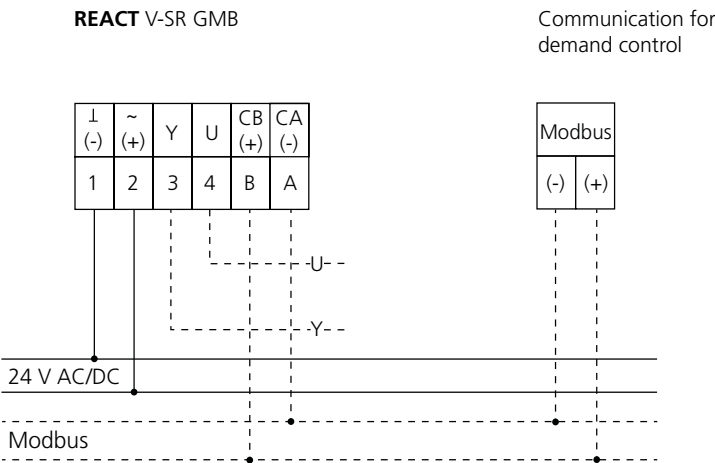
Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Setpoint source : Bus
- Bus protocol : Modbus

Modbus

- Set point source (address 122) : 1 or 2
- Set point (address 0) : 0...10000
0 = 0% (min. flow), 10000 = 100% (max. flow)
- For further information, see the Modbus documentation for REACT Gruner.

Wiring diagram



Notes

Parallel controlled air flow control

Air flow measuring and regulating damper that variably controls the air flow in parallel between the minimum and maximum flow rate depending on the control signal.

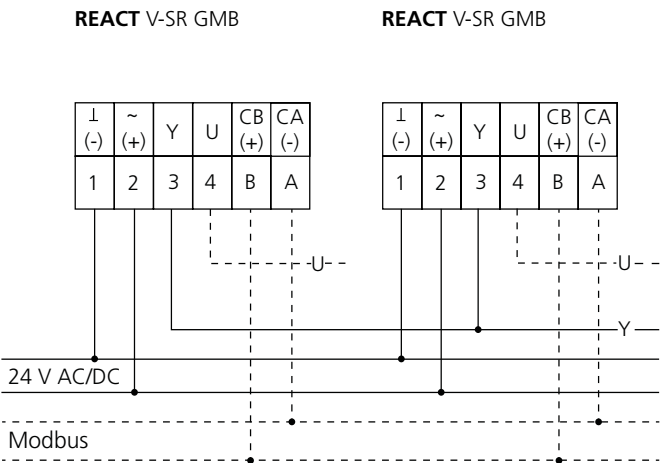
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled two-flow control with occupancy detector

Air flow measuring and regulating damper that controls the air flow on the set position. Via occupancy detection, the dampers switch between absence flow and occupancy flow.

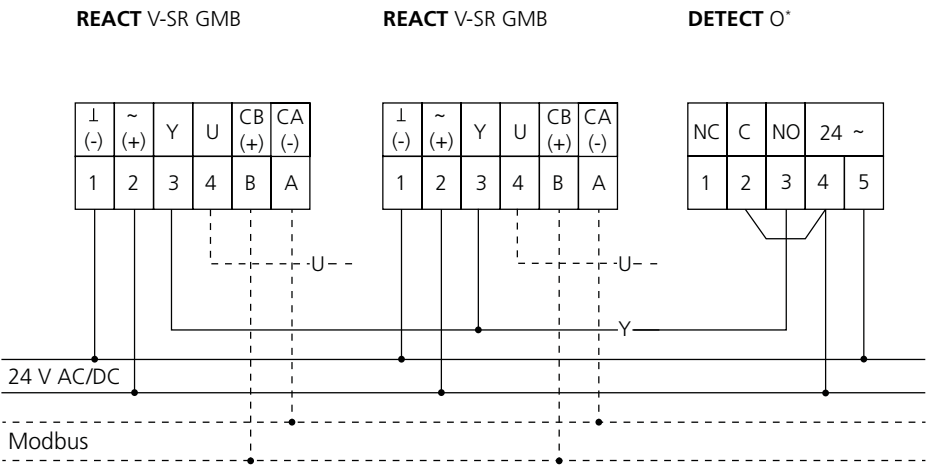
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Unoccupied flow
- Vmax : Occupancy flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus
- The dampers will indicate "Test" on the display when boosting (occupancy) to show they are manually boosted.

Wiring diagram



*Modbus communication not available

Notes

Parallel controlled air flow control with temperature and CO₂ function

Air flow measuring and regulating dampers that variably control the air flow in parallel between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in the room.

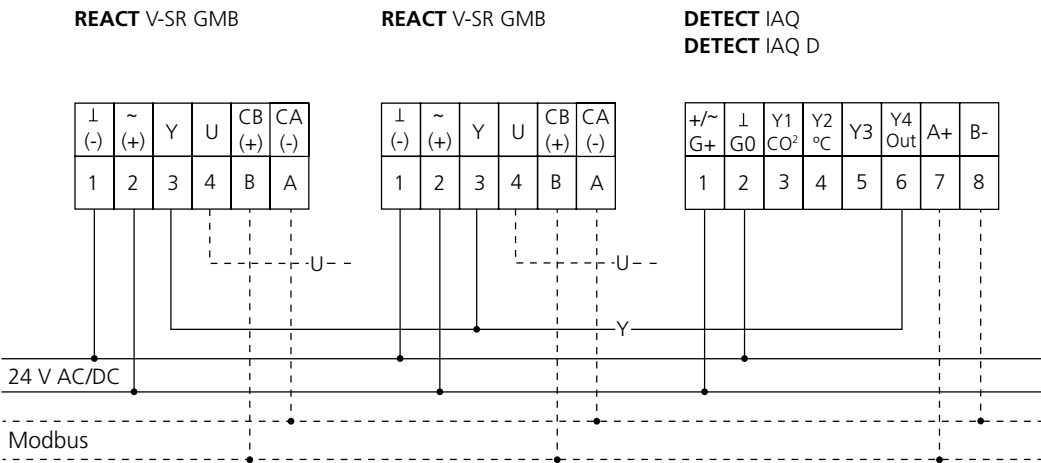
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled air flow control with temperature, CO₂ and occupancy function

Air flow measuring and regulating dampers that variably control the air flow in parallel between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the internal presence sensor. The damper regulates to minimum flow rate in no-occupancy mode.

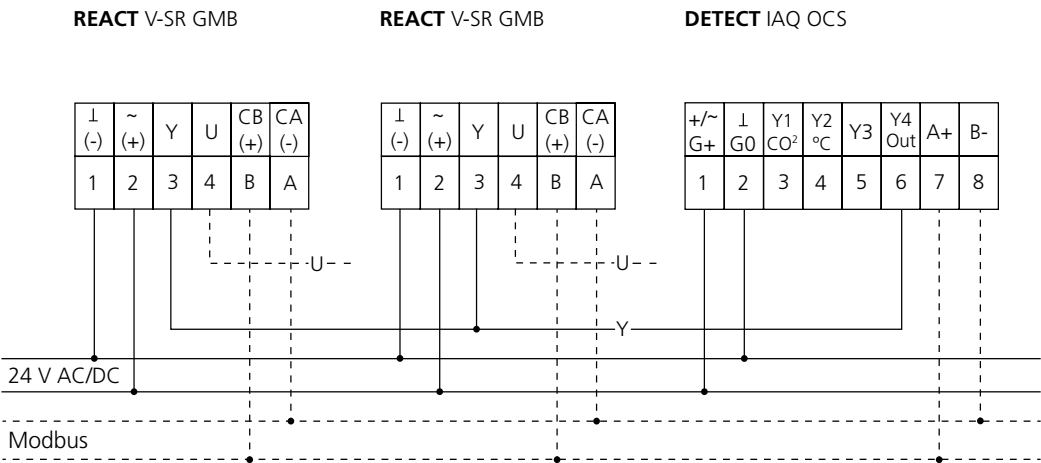
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled air flow control with temperature and CO₂ function via external occupancy detector

Air flow measuring and regulating dampers that variably control the air flow in parallel between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the external occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode.

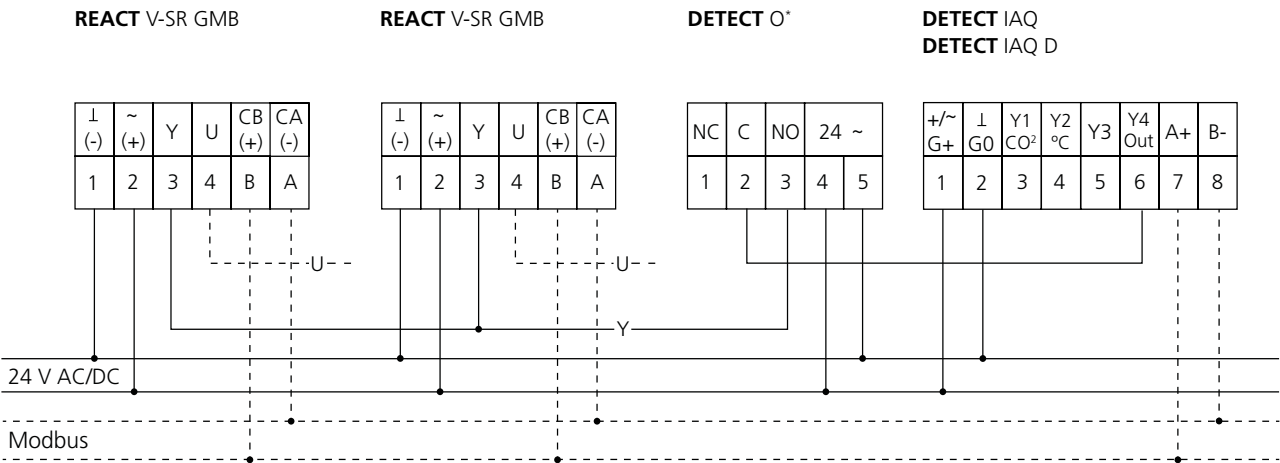
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Parallel controlled air flow control with temperature controller for demand control and temperature adjustment

Air flow measuring and regulating damper that variably controls the air flow in parallel between the set minimum and maximum flow rate (cooling function) depending on the set temperature set point. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U).

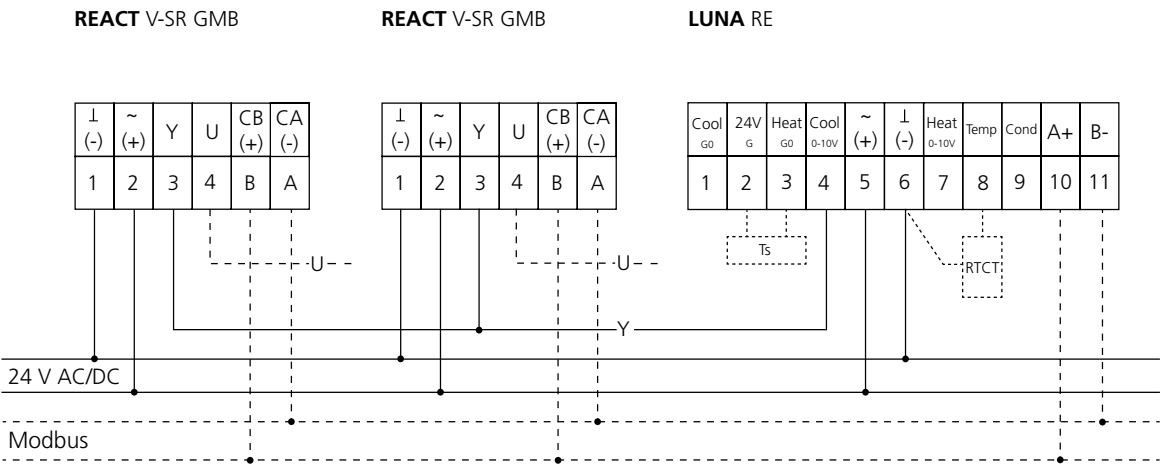
Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled air flow control with controller for demand control

Air flow measuring and regulating damper that variably controls the air flow in parallel between the minimum and maximum flow rate depending on the control signal.

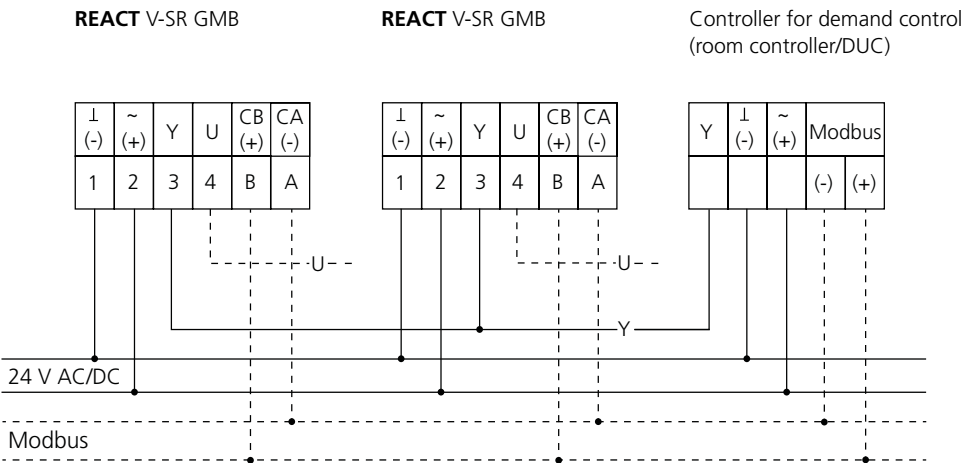
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled air flow control with temperature controller and temperature adjustment for demand control via external occupancy detector

Air flow measuring and regulating damper that variably controls the air flow in parallel between the set minimum and maximum flow rate (cooling function) depending on the set temperature set point in occupancy mode. Occupancy is detected via the external occupancy detector. The room is regulated to minimum flow rate in no-occupancy mode. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

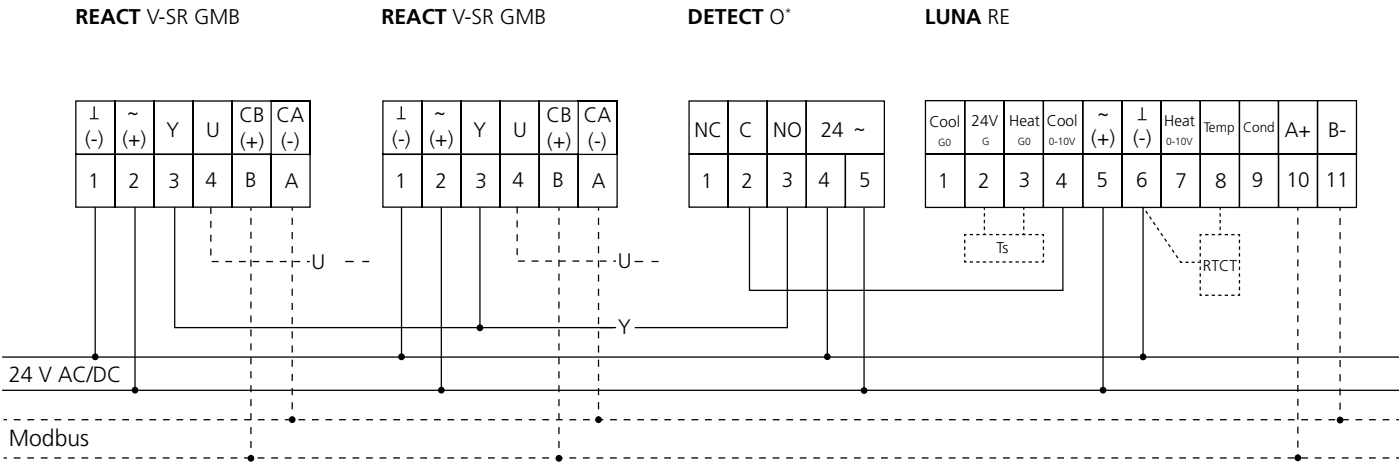
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Parallel controlled air flow control with controller for demand control via external occupancy detector

Air flow measuring and regulating damper that variably controls the air flow in parallel between the minimum and maximum flow rate depending on the control signal in occupancy mode. Occupancy is detected via the external occupancy detector. The room is regulated to minimum flow rate in no-occupancy mode.

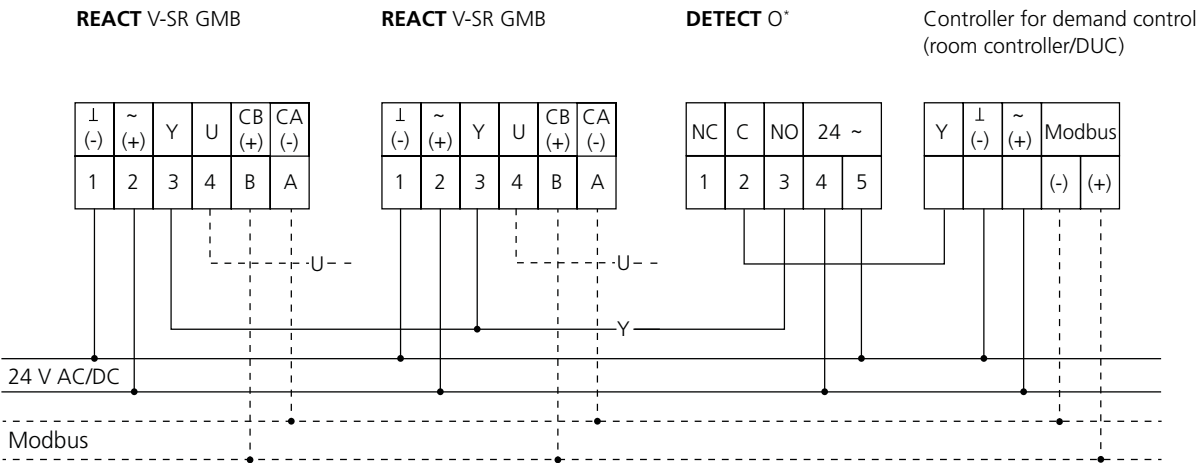
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Parallel controlled air flow control with temperature controller for demand control and absence control

Air flow measuring and regulating damper that variably controls the air flow in parallel between the set minimum and maximum flow rate (cooling function) depending on the temperature set point in occupancy mode. The room is set to absence temperature set point in no-occupancy mode. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

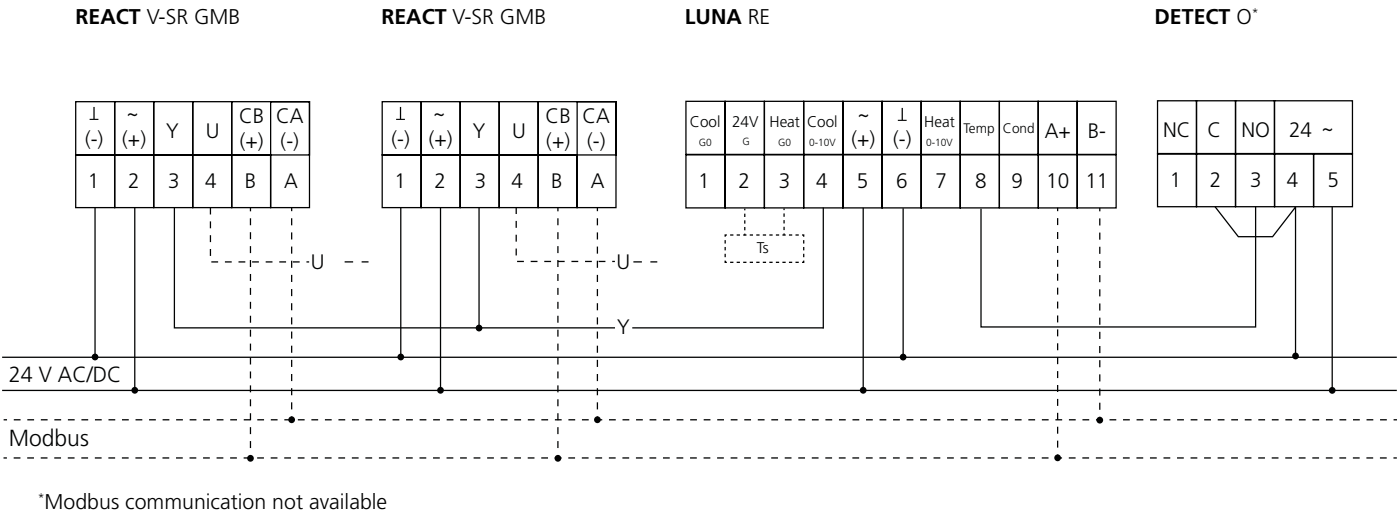
Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Balanced air flow control

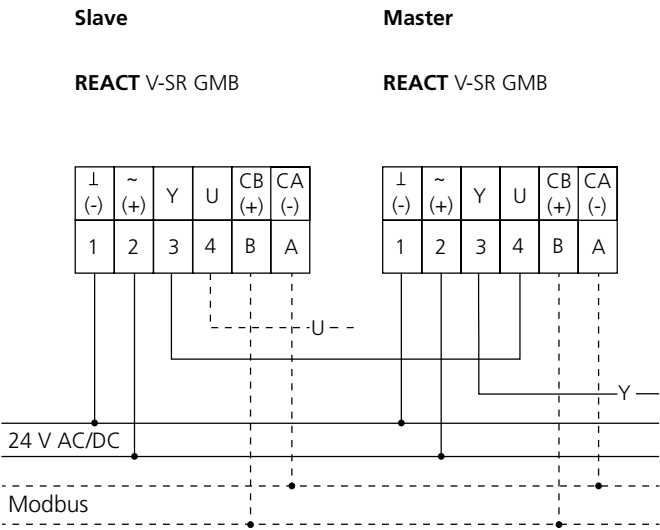
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



Notes

Balanced two-flow control with occupancy detector

Air flow measuring and regulating damper that controls the air flow on the set position. Via occupancy detection, the damper switches between absence flow and occupancy flow. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

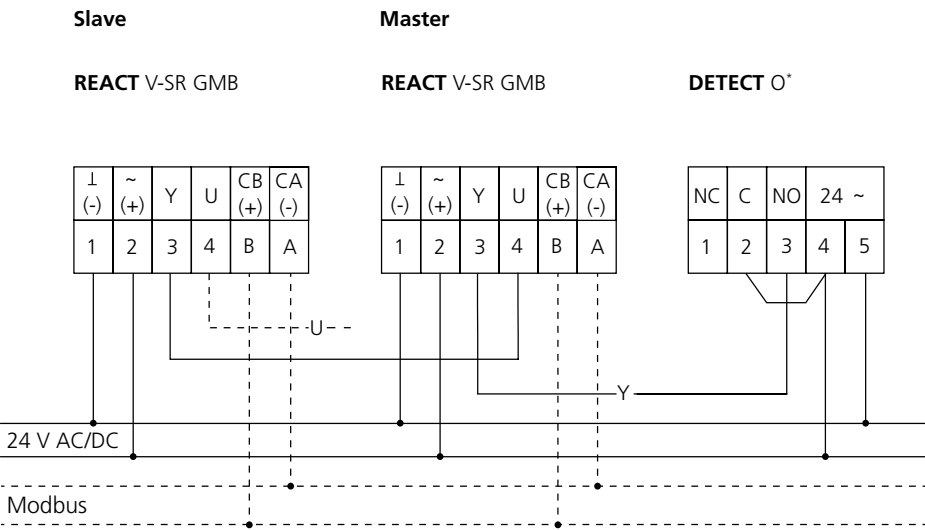
Air flow control – Slave

Vmin : 0
Vmax : Vnom on Master
Mode : Same as Master
Setpoint source : Analogue
Bus protocol : Modbus

Air flow control – Master

Vmin : Unoccupied flow
Vmax : Occupancy flow
Mode : 0 (2)-10 V
Setpoint source : Analogue
Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Balanced air flow control with temperature and CO₂ function

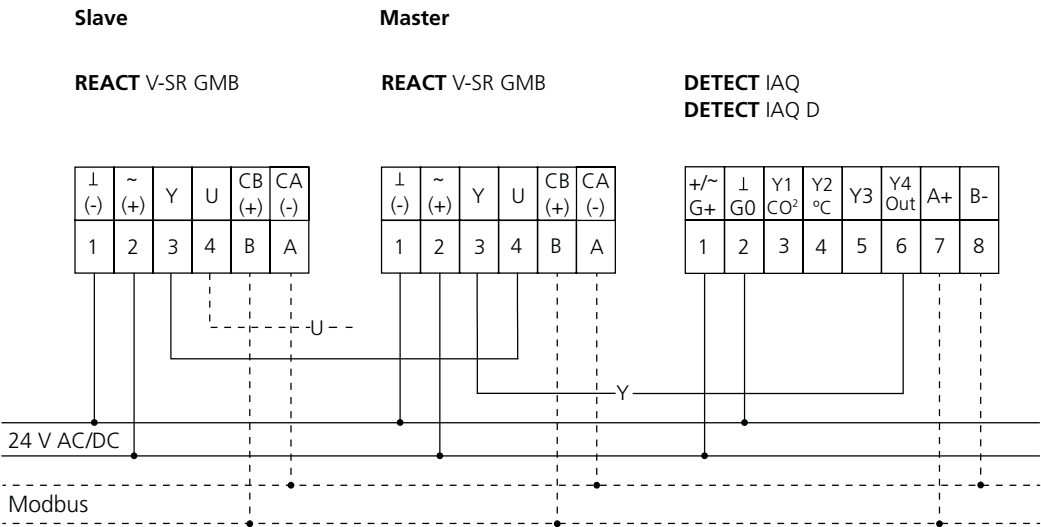
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in the room. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 - 10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



Notes

Balanced air flow control with temperature, CO₂ and occupancy function

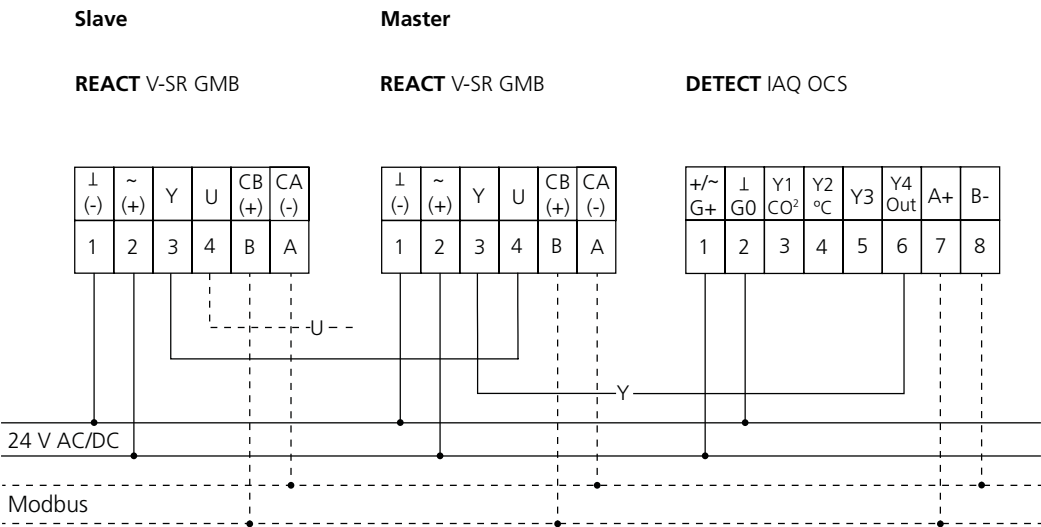
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the internal occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



Notes

Balanced air flow control with temperature and CO₂ function via external occupancy detector

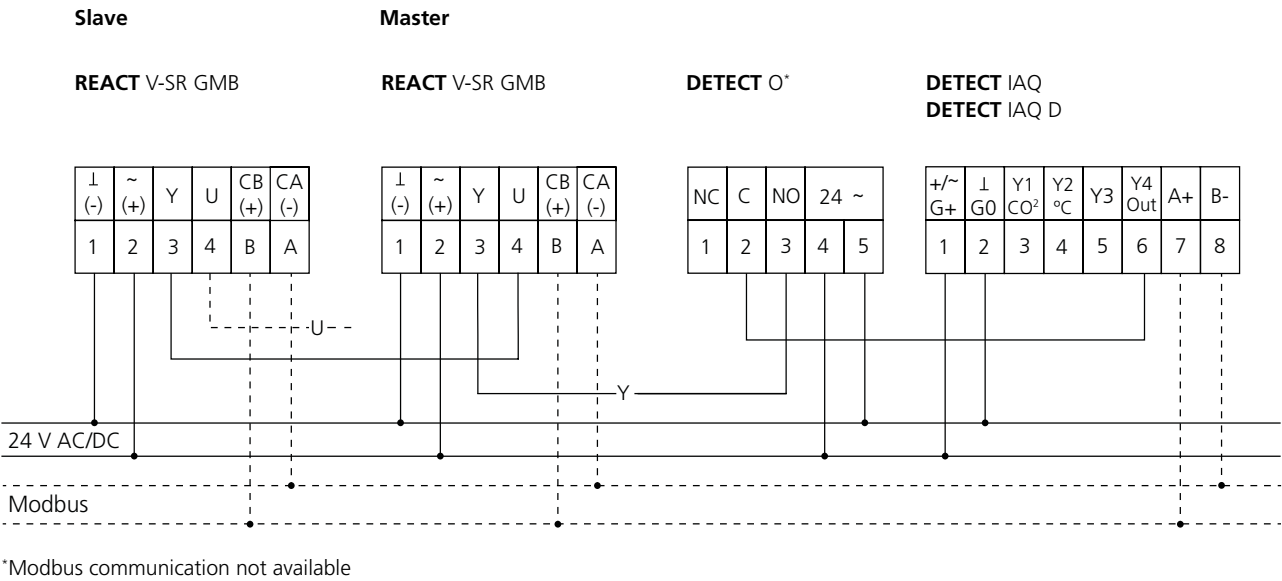
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the current temperature and the CO₂ content in occupancy mode. Occupancy is detected via the external occupancy detector. The damper regulates to minimum flow rate in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave	Air flow control – Master
Vmin : 0	Vmin : Min. air flow
Vmax : Vnom on Master	Vmax : Max. air flow
Mode : Same as Master	Mode : 0 - 10 V
Setpoint source : Analogue	Setpoint source : Analogue
Bus protocol : Modbus	Bus protocol : Modbus

Wiring diagram



Notes

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Bus protocol : Modbus

Bus protocol : Modbus

Wiring diagram

Notes

Balanced air flow control with temperature controller and temperature adjustment for demand control via external occupancy detector

Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the set temperature set point in occupancy mode. Occupancy is detected via the external occupancy detector. The room is regulated to minimum flow rate in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room. The wiring diagram also shows the alternative with RTCT duct temperature sensor and thermo-actuator (Ts) for heating function.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

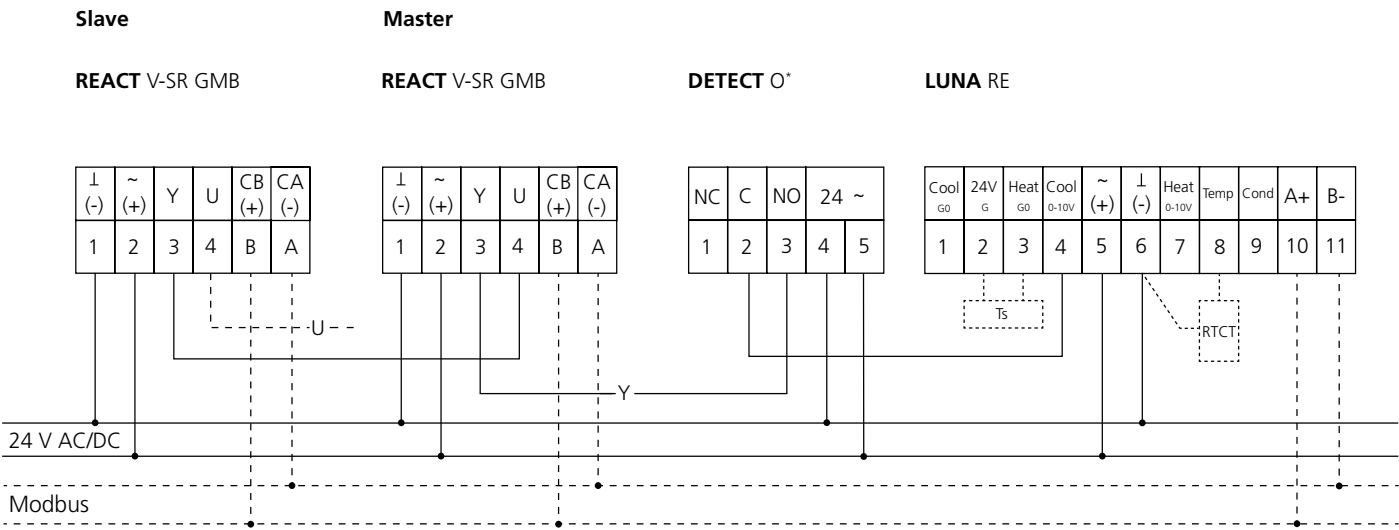
Air flow control – Slave

- Vmin : 0
- Vmax : Vnom on Master
- Mode : Same as Master
- Setpoint source : Analogue
- Bus protocol : Modbus

Air flow control – Master

- Vmin : Min. air flow
- Vmax : Max. air flow
- Mode : 0 - 10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



*Modbus communication not available

Notes

Balanced air flow control with controller for demand control via external occupancy detector

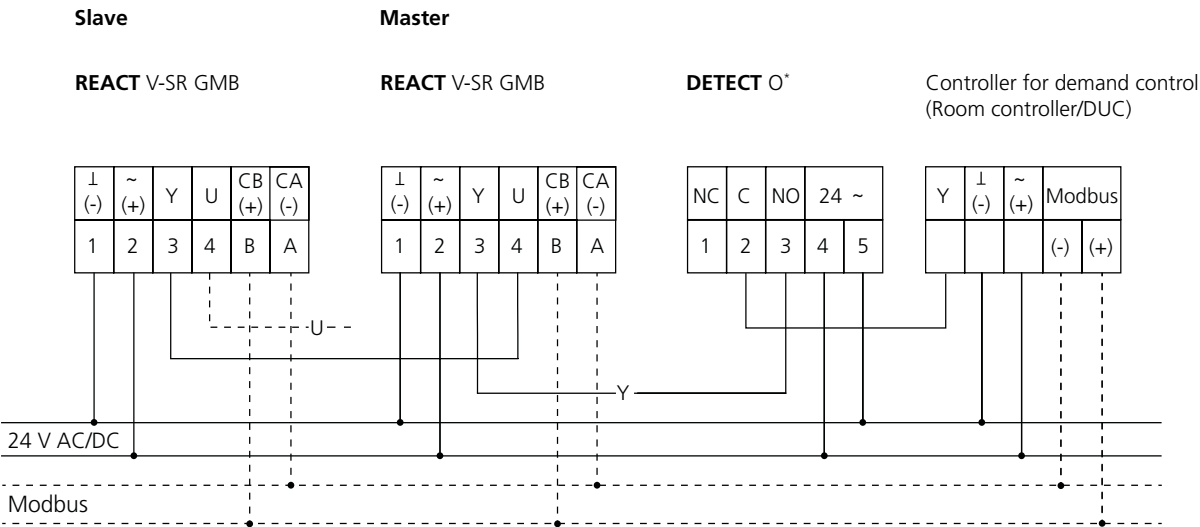
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate depending on the control signal in occupancy mode. Occupancy is detected via the external occupancy detector. The room is regulated to minimum flow rate in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room.

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 (2)-10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



*Modbus communication not available

Notes

Balanced air flow control with temperature controller for demand control and absence control

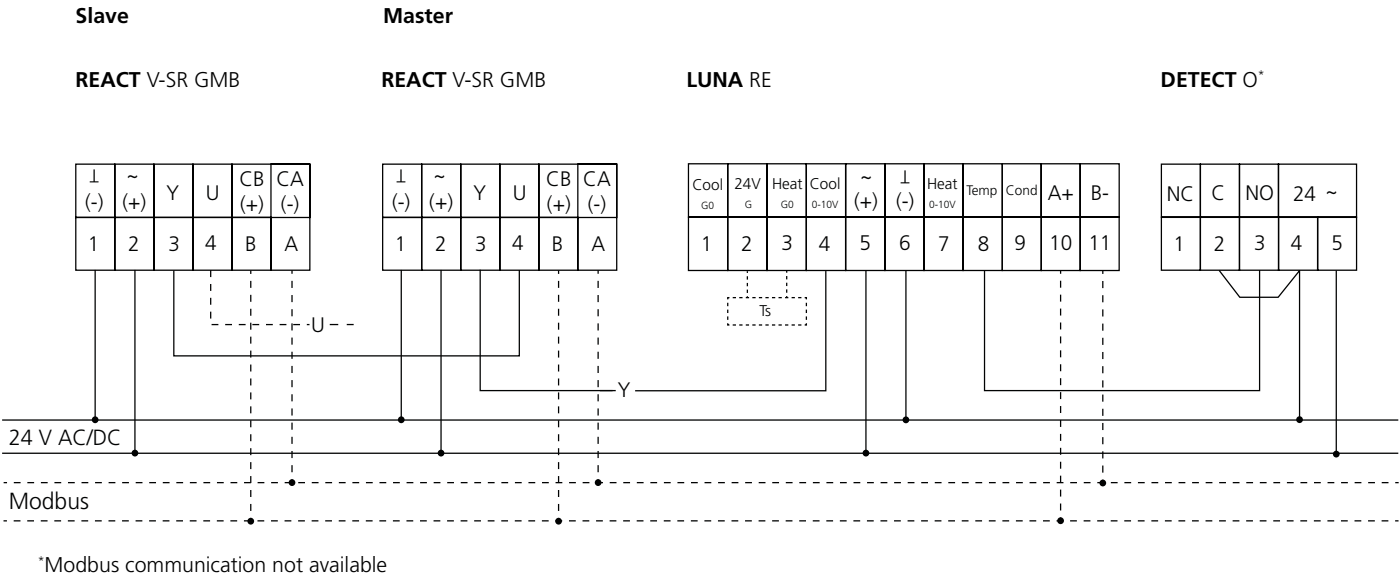
Air flow measuring and regulating damper that variably controls between the minimum and maximum flow rate (cooling function) depending on the temperature set point in occupancy mode. The room is set to absence set point in no-occupancy mode. The air flow value from the master damper is sent analogously to the slave damper to maintain the balance in the room. The wiring diagram also shows alternative with RTCT duct temperature sensor and thermo-actuator (heating function).

Demand control via analogue control signal (Y). Return of the current air flow via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave		Air flow control – Master	
Vmin	: 0	Vmin	: Min. air flow
Vmax	: Vnom on Master	Vmax	: Max. air flow
Mode	: Same as Master	Mode	: 0 - 10 V
Setpoint source	: Analogue	Setpoint source	: Analogue
Bus protocol	: Modbus	Bus protocol	: Modbus

Wiring diagram



Notes

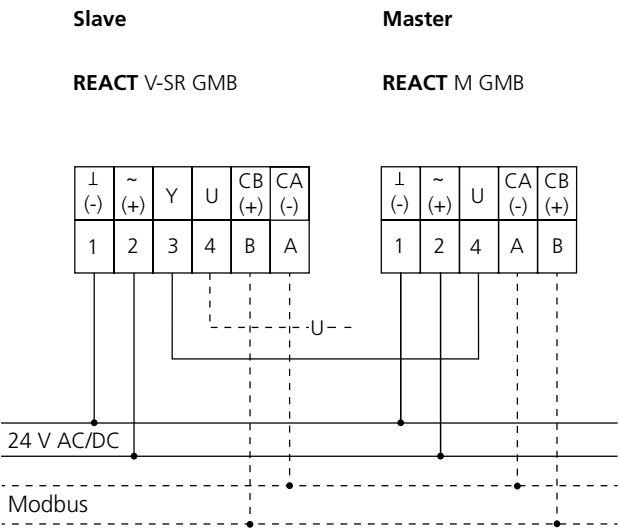
Air flow measurement with slave-controlled air flow control

The air flow value from the measuring unit is sent analogously to the slave damper depending on the minimum and maximum flow rate to maintain the balance in the room with or without offset.
 Return of the current air flow via analogue actual value signal (U).
 Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave	Air flow measurement – Master
Vmin : Same as Master ± offset	Vmin : Set value for min. actual value signal (0/2 V)
Vmax : Same as Master ± offset	Vmax : Set value for max. actual value signal (10 V)
Mode : Same as Master	Mode : 0 (2)-10 V
Setpoint source : Analogue	Setpoint source : Analogue
Bus protocol : Modbus	Bus protocol : Modbus

Wiring diagram



Notes

Constant pressure regulation with external regulator

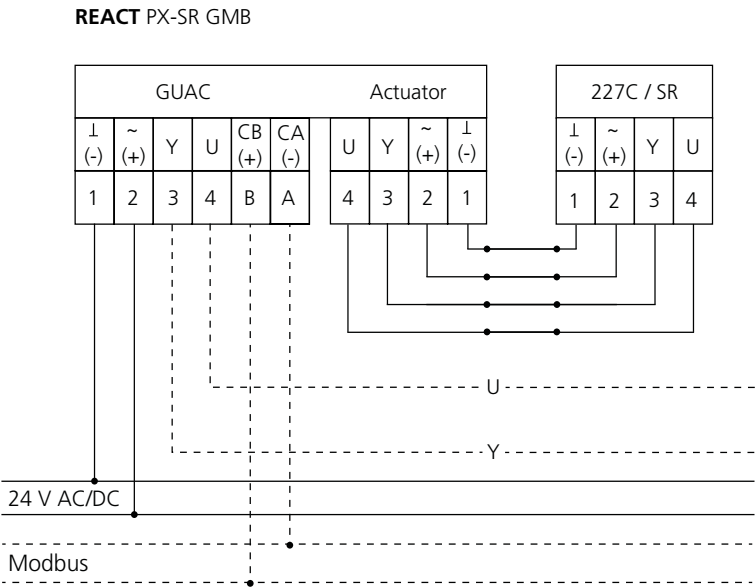
Pressure measuring and regulating damper with an external regulator to maintain the set pressure.
Return of the current pressure via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation

- Pmin : Consistent pressure
- Pmax : 0
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus
- Indicates "Test" on the display.

Wiring diagram



Notes

Pressure regulation with external regulator

Pressure measurement and regulating damper that variably regulates between the min. and max. pressure depending on the control signal.

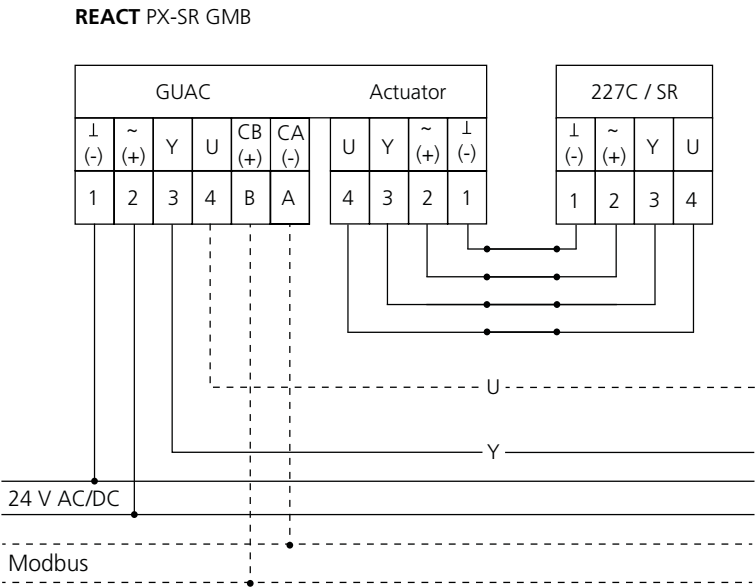
Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation

- Pmin : Min. pressure
- Pmax : Max. pressure
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram



Notes

Parallel controlled pressure regulation with external regulator

Pressure measuring and regulating damper with external regulator that variably regulates the duct pressure in parallel between the min. and max. pressure depending on the control signal.

Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

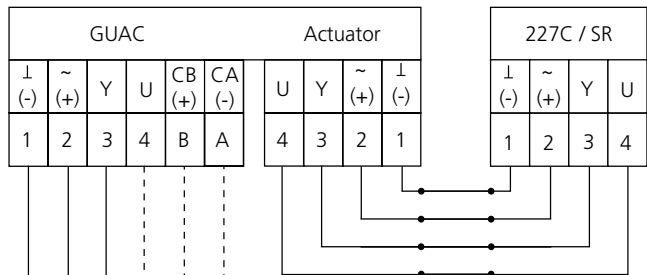
Settings

Pressure regulation

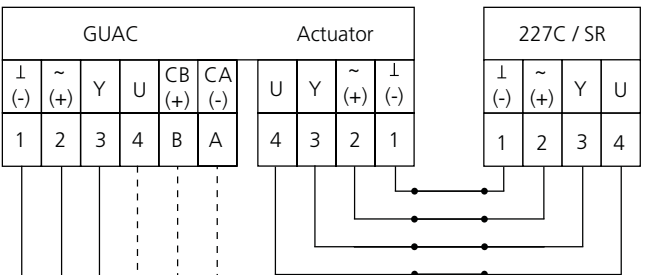
- Pmin : Min. pressure
- Pmax : Max. pressure
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram

REACT PX-SR GMB



REACT PX-SR GMB



Notes

Balanced pressure regulation with external regulator

Pressure measurement and regulating damper with external regulator that variably regulates between the min. and max. pressure depending on the control signal. The actual pressure value from the master damper is sent analogously to the slave damper to maintain the balance.

Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Pressure regulation – Slave

- Pmin : 0
- Pmax : Nominal pressure on Master
- Mode : Same as Master
- Setpoint source : Analogue
- Bus protocol : Modbus

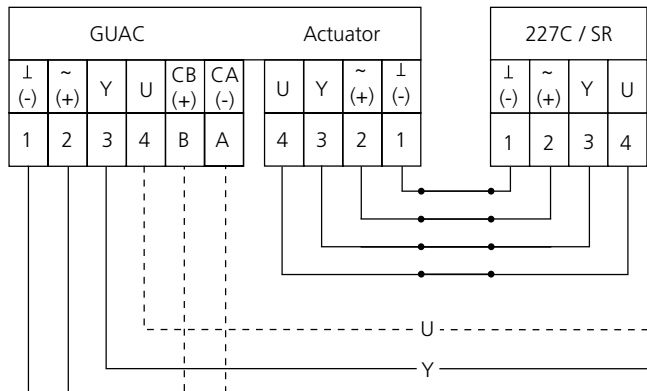
Pressure regulation – Master

- Pmin : Min. pressure
- Pmax : Max. pressure
- Mode : 0 (2)-10 V
- Setpoint source : Analogue
- Bus protocol : Modbus

Wiring diagram

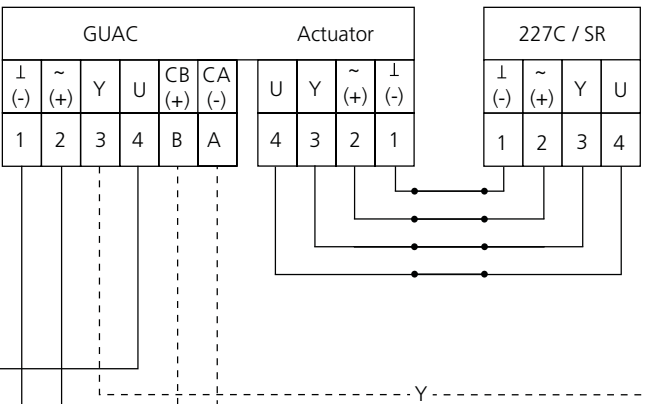
Slave

REACT PX-SR GMB



Master

REACT PX-SR GMB



Notes

Constant pressure regulation and air flow measurement with slave-controlled air flow control

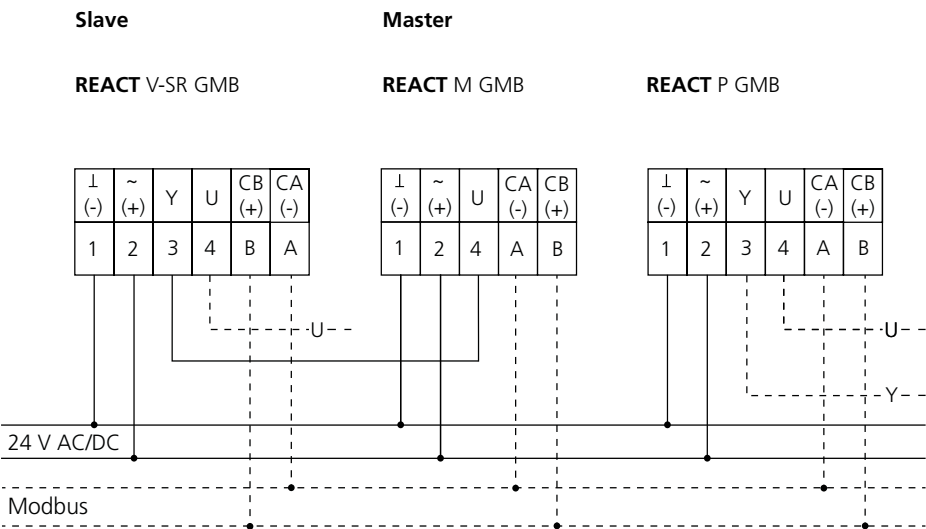
REACT P GMB measures and regulates to maintain the set air pressure. The actual air flow value from REACT M GMB is sent analogously to the slave damper REACT V-SR GMB. Depending on the min. and max. flows, the air flow balance is maintained with or without offset.

Return of the current pressure/air flow via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave	Air flow measurement – Master	Pressure regulation
Vmin : Same as Master ± offset	Vmin : Set value for min. actual value signal (0/2 V)	Pmin : Consistent pressure
Vmax : Same as Master ± offset	Vmax : Set value for max. actual value signal (10 V)	Pmax : 0
Mode : Same as Master	Mode : 0 (2)-10 V	Mode : 0 (2)-10 V
Setpoint source : Analogue	Setpoint source : Analogue	Setpoint source : Analogue
Bus protocol : Modbus	Bus protocol : Modbus	Bus protocol : Modbus
		Indicates "Test" on the display.

Wiring diagram



Notes

Constant pressure regulation with external regulator and air flow measurement with slave-controlled air flow control

REACT PX-SR GMB measures and regulates with an external regulator to maintain the set pressure. The actual air flow value from REACT M GMB is sent analagously to the slave damper REACT V-SR GMB. Depending on the min. and max. flows, the air flow balance is maintained with or without offset.

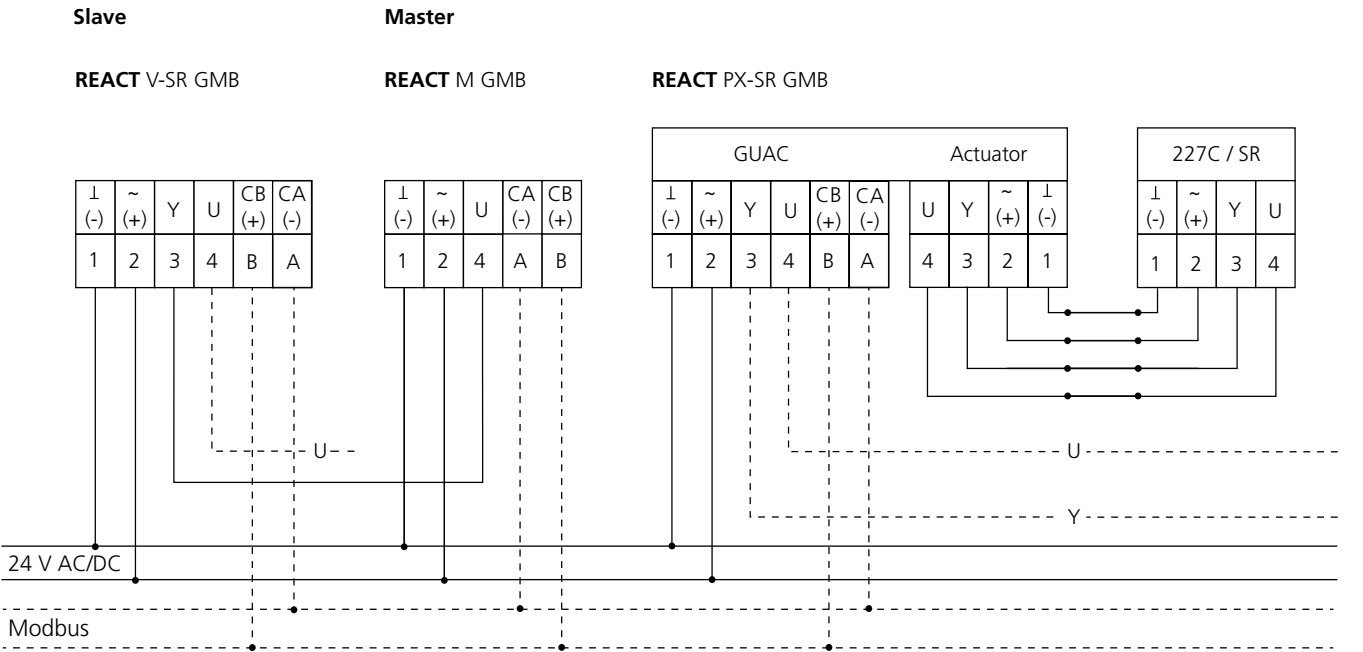
Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U).

Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave	Air flow measurement – Master	Pressure regulation
Vmin : Same as Master ± offset	Vmin : Set value for min. actual value signal (0/2 V)	Pmin : Consistent pressure
Vmax : Same as Master ± offset	Vmax : Set value for max. actual value signal (10 V)	Pmax : 0
Mode : Same as Master	Mode : 0 (2)-10 V	Mode : 0 (2)-10 V
Setpoint source : Analogue	Setpoint source : Analogue	Setpoint source : Analogue
Bus protocol : Modbus	Bus protocol : Modbus	Bus protocol : Modbus
		Indicates "Test" on the display.

Wiring diagram



Notes

Pressure regulation and air flow measurement with slave-controlled air flow control

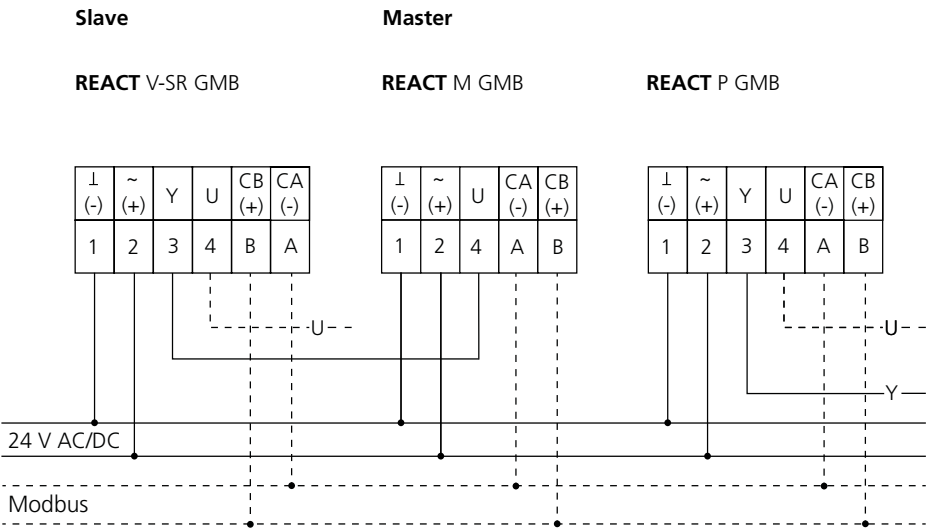
REACT P GMB measures and regulates variably between the min. and max. pressure depending on the control signal. The actual air flow value from REACT M GMB is sent analagously to the slave damper REACT V-SR GMB. Depending on the min. and max. flows, the air flow balance is maintained with or without offset.

Return of the current pressure/air flow via analogue actual value signal (U).
Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave	Air flow measurement – Master	Pressure regulation
Vmin : Same as Master ± offset	Vmin : Set value for min. actual value signal (0/2 V)	Pmin : Min. pressure
Vmax : Same as Master ± offset	Vmax : Set value for max. actual value signal (10 V)	Pmax : Max. pressure
Mode : Same as Master	Mode : 0 (2)-10 V	Mode : 0 (2)-10 V
Setpoint source : Analogue	Setpoint source : Analogue	Setpoint source : Analogue
Bus protocol : Modbus	Bus protocol : Modbus	Bus protocol : Modbus
		Indicates "Test" on the display.

Wiring diagram



Notes

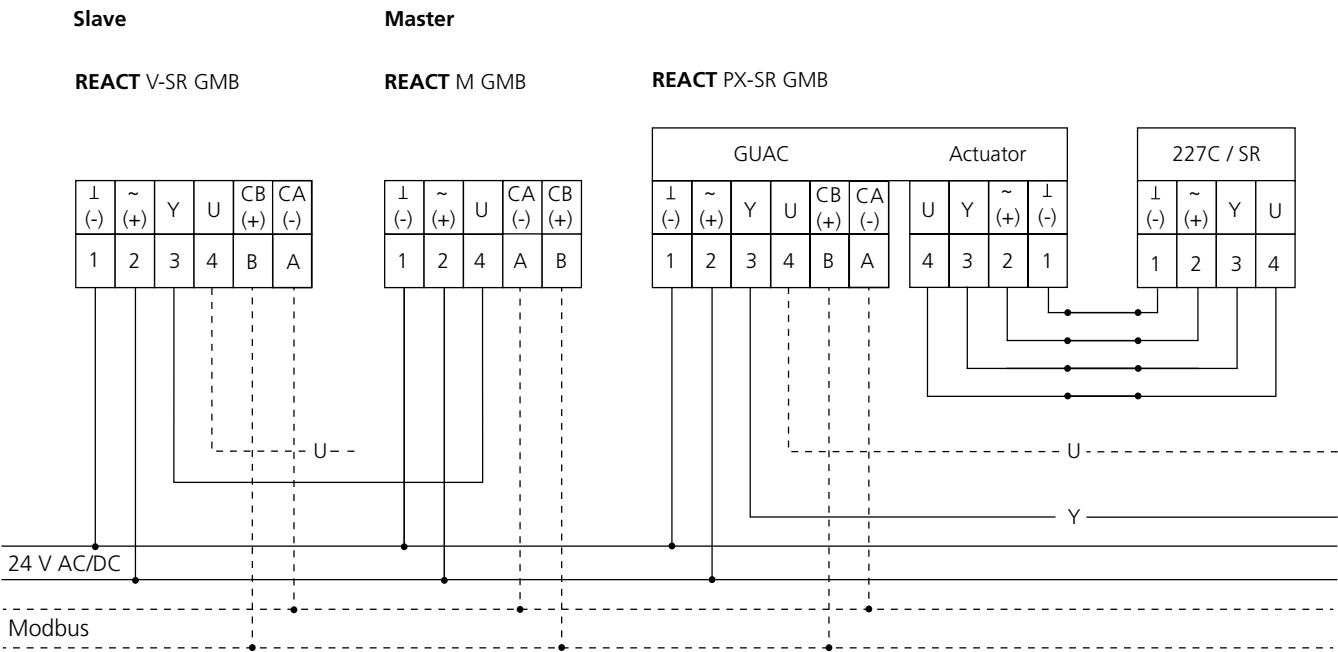
Pressure regulation with external regulator and air flow measurement with slave-controlled air flow control

REACT PX-SR GMB measures and regulates with an external regulator variably between the min. and max. pressure depending on the control signal. The actual air flow value from REACT M GMB is sent analogously to the slave damper REACT V-SR GMB. Depending on the min. and max. flows, the air flow balance is maintained with or without offset. Demand control via analogue control signal (Y). Return of the current pressure via analogue actual value signal (U). Potential for Modbus communication in combination with analogue control signals.

Settings

Air flow control – Slave	Air flow measurement – Master	Pressure regulation
Vmin : Same as Master ± offset	Vmin : Set value for min. actual value signal (0/2 V)	Pmin : Min. pressure
Vmax : Same as Master ± offset	Vmax : Set value for max. actual value signal (10 V)	Pmax : Max. pressure
Mode : Same as Master	Mode : 0 (2)-10 V	Mode : 0 (2)-10 V
Setpoint source : Analogue	Setpoint source : Analogue	Setpoint source : Analogue
Bus protocol : Modbus	Bus protocol : Modbus	Bus protocol : Modbus
		Indicates "Test" on the display.

Wiring diagram



Notes