

Instructions for the Installation of the type TBLZ-3-50

Zone Control Box (X zone)

GOLD

1. General

The zone control box consists of two IQlogic+ modules and one transformer (230 VAC/24 VAC) mounted inside a metallic enclosure.

Necessary wiring terminals are provided for connection to external components. The metallic enclosure has cable gland screw caps for cable entry.

See also the separate guide to the Xzone functions.

2. Range of Application

Sometimes more than one temperature zone is required in a ventilation system. Different temperature needs in various parts of a building may be due to the perimeter wall of the building facing north or south, diverse operations conducted inside or other reasons, for instance. The function is designed for one extra temperature zone, max.

3. Installation

Secure the zone control box to a wall, the air handling unit or the like by means of four screws.

4. Technical Data

Supply voltage	230 V AC or 400 V AC, max. 10 A
CE-approved to	EN 61000-6-2, EN 61000-6-3
Enclosure class	IP 65
Ambient temperature	-40 °C – +55 °C
at relative humidity	10 – 95%
Relay contacts	2 A/AC3, 5 A/AC1
Weight	8 kg
Dimensions (Width x Height x Depth)	300 x 400 x 120 mm
Fuse protection	2-pin connector, 1 A, D characteristic
Transformer	24 V AC/24 VA

5. Function

5.1 Xzone heating (wiring terminals 101-114)

IQlogic+ module 1 is used for the extra heating control zone function (function selector switch 1 is set to Position A).

The function can be enabled in the hand-held micro terminal of the GOLD unit or via a communication interface.

The module controls an electric air heater or an air heater for hot water.

Connect the 0-10 VDC control signal of electric air heater or valve actuator to the IQlogic+ module with an RJ 45 connector.

Connect the conductors from the pump, if fitted, to Terminals 101 and 102.

Connect the pump alarm, if required, to Terminals 103 and 104.

Connect the freeze guard sensor of the air heater for water to the IQlogic+ module with an RJ 45 connector.

Connect the conductors from the supply air temperature sensor (TBLZ-1-30) to wiring terminals 113 and 114.

See 6. Electrical connections on the next page.

5.2 Xzone cooling (wiring terminals 115-132)

IQlogic+ module 2 is used for the extra cooling control zone function (function selector switch 2 is set to Position B). Always use this module for extract air control/room air control even if the room is not being cooled. However, there's no need to enable the cooling function in the hand-held micro terminal of the GOLD unit.

The function can be enabled in the hand-held micro terminal of the GOLD unit or via a communication interface.

The module controls a DX air cooler or an air cooler for chilled water.

Connect the 0-10 VDC control signal of valve actuator to the IQlogic+ module with an RJ 45 connector.

Connect the Cooling step 1/Pump 1 connectors (relay output) to Terminals 115 and 116.

Connect the Cooling step 2/Pump 2 connectors (relay output) to Terminals 117 and 118.

Connect the Cooling step 1/Pump 1 Alarm conductors to Terminals 119 and 120.

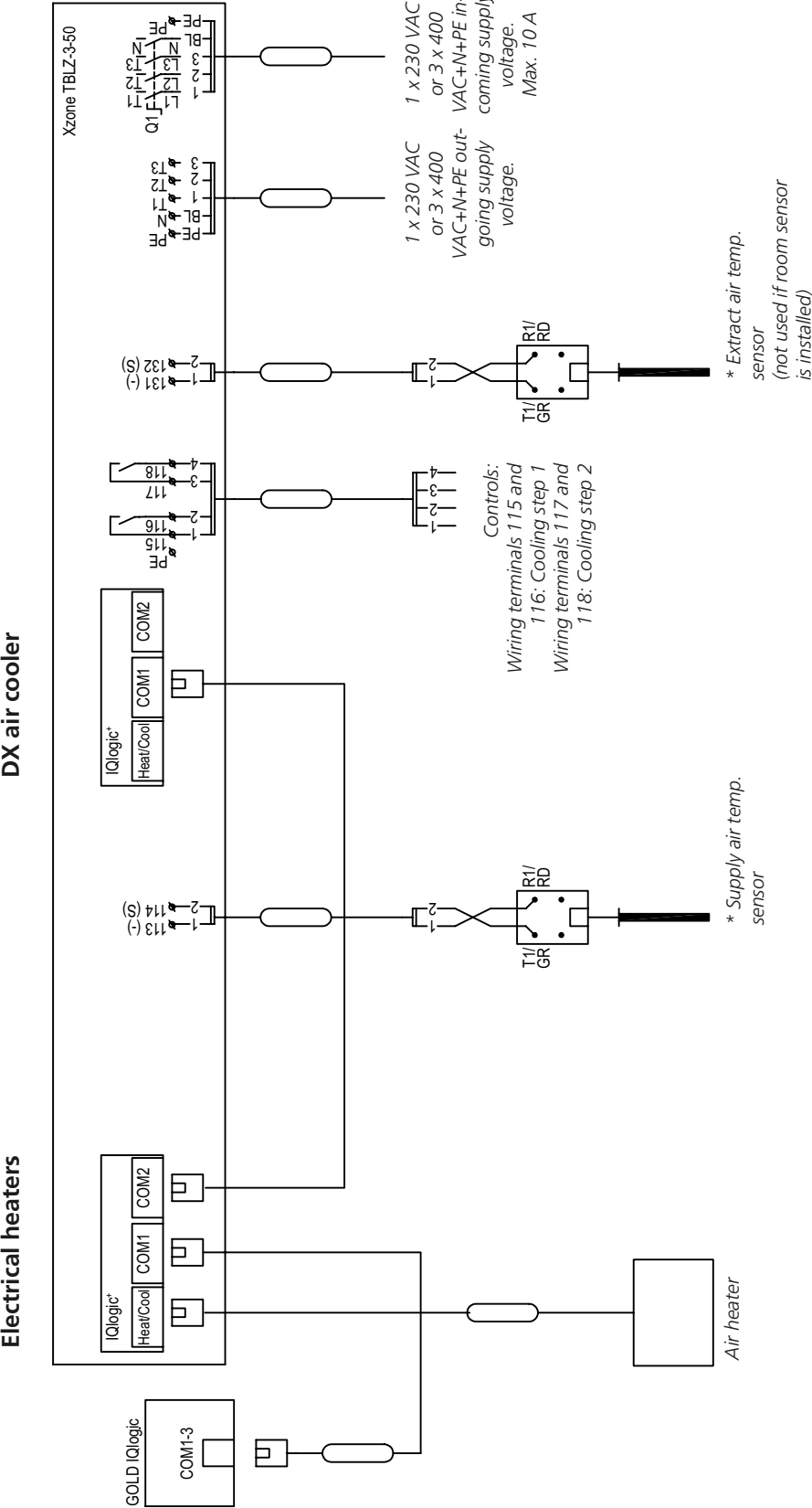
Connect the Cooling step 2/Pump 2 Alarm conductors to Terminals 121 and 122.

Connect the temperature sensor in the extract air duct (TBLZ-1-30), if required, to Terminals 131 and 132.

Connect room sensor, TBLZ-24-2 (1-4 sensors), if required, to the IQlogic+ module with RJ45 contact, see separate installation instructions.

See Section 6. Electric connections appear on the next page.

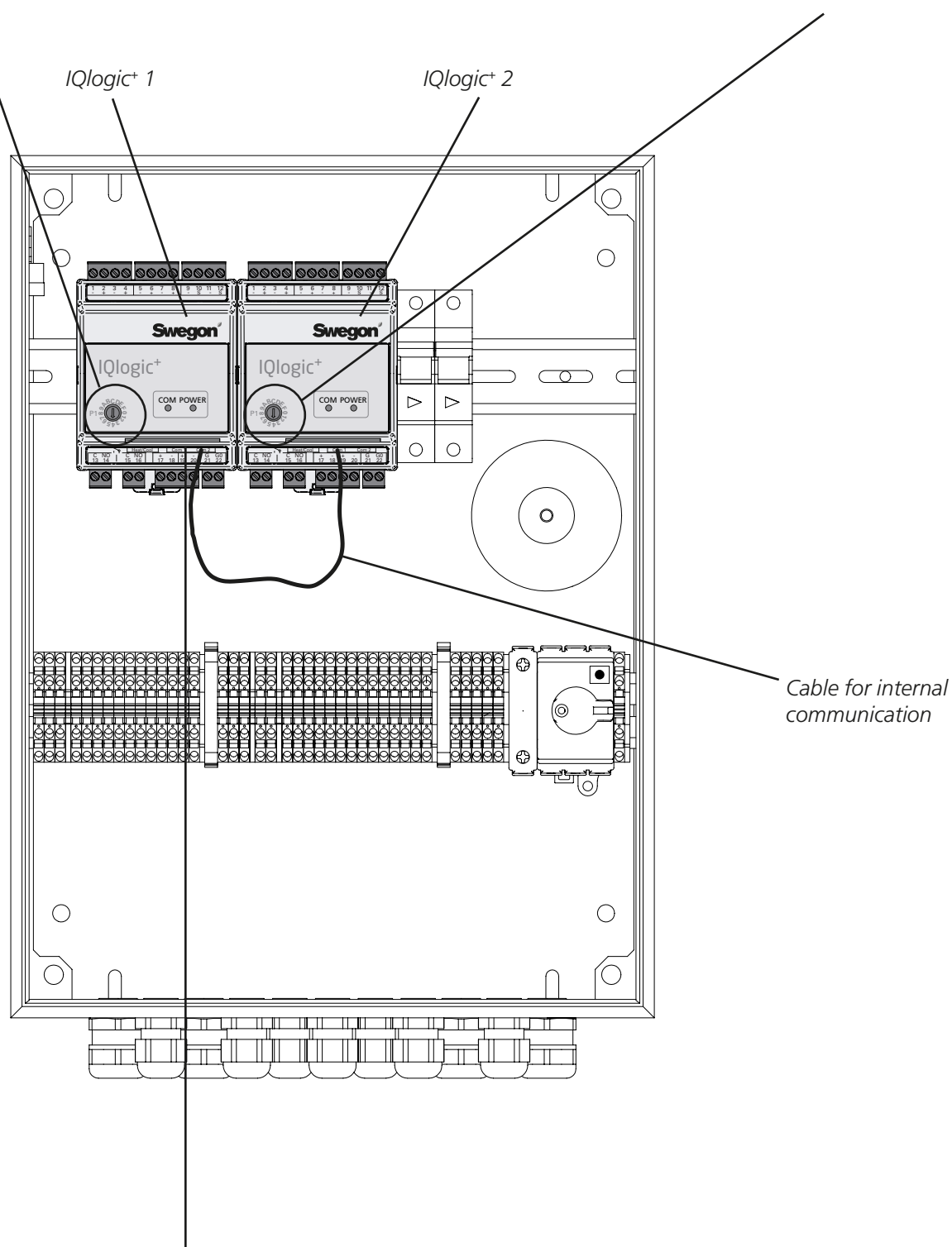
6.2 Electric air heater/air cooler, DX



* Digital temperature sensors require correct polarity. Be careful when you wire the conductors.

Function selector switch 1, Position A

Function selector switch 2, Position B



IQlogic+ 1

IQlogic+ 2

Cable for internal communication

Terminals for connection of the TBLZ-1-26-aa modular cable to the GOLD control unit, COM 1-3.

