Device Description   **TQF10, TQF12, TQF14, TQF16 Room Service Module**

Contents subject to change

Issue date: 04/20/2004

TQF10, TQF12, TQF14, TQF16
Room Service Module

The Room Service Modules TQF10, TQF12, TQF14, TQF16 and the technolon® Single Room Control FBR100-L form a device unit in the LON network. They are designed to record room temperatures in living and business premises.
The room setpoint is set with the setpoint adjustor.

The TQF12 Room Service Module additionally also has a user button for the switchover to day /night.

The TQF14 Room Service Module additionally also has a user button for switching to three ventilator levels.

The TQF16 Room Service Module like the TQF12 additionally also has a user button for switching to three ventilator levels.

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TQF10, TQF12, TQF14, TQF16 Room Service Module   **Device Description**

Notes on the device description
The description contains references for the deployment and assembly of the Room Service Modules
TQF10, TQF12, TQF14 and TQF16.
In case of questions which cannot be clarified with this device description, please refer to the supplier or
manufacturer for further information.

The indicated installation instructions/regulations are valid in the Federal Republic of Germany.
When utilizing the devices in other countries, the builder or operator of the plant is responsible for the observation
of the respective national regulations.

The operating staff is to be instructed in accordance with the description of the technical data sheet.

Safety Instructions
The currently valid worker's occupational health regulations and regulations for the prevention of industrial
accidents must be observed when assembling and using the devices.

Any work concerning the assembly, installation or initial operation of the devices shall be exclusively carried out
by qualified specialists, see section "Qualified specialists".

Every person utilizing the devices shall have read and understood the descriptions in the technical data sheet.

Meaning of the symbols in the technical data sheet:

Warning   General warning, strictly observe this notice

Note   Further notice to observe

Warning   means danger of bodily injuries or material damage in case of non-observance.
Note   indicates an information which is particularly stressed.

Qualified specialists
Qualified specialists for the purposes set out in this technical data sheet are persons who are familiar with the described
devices and possess a qualification for their respective occupation.
These are for instance:
- Authorization to connect the devices according to the VDE rules and local Electricity Board regulations, as
  well as the authorization to switch the devices on and off taking the in-house regulations into account.
- Knowledge of the regulations for prevention of accidents.
- Knowledge of the utilization of the devices within the plant system.
- etc.

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Device Description   TQF10, TQF12, TQF14, TQF16 Room Service Module

Application

The Room Service Modules TQF10, TQF12, TQF14 and TQF16 are employed with the technolon® Single room control FBR100-L.

At every technolon® Single room control FBR100-L a Room Service Module TQF10, TQF12, TQF14 or TQF16 can be connected.

Types

TQF10   Room Service Module with a room temperature sensor and the manual adjustment of the room setpoint

TQF12   Room Service Module with a room temperature sensor and the manual adjustment of the room setpoint with user button for switchover to day/night

TQF14   Room Service Module with a room temperature sensor and the manual adjustment of the room setpoint with user button for the switching of three ventilator speeds

TQF16   Room Service Module with a room temperature sensor and the manual adjustment of the room setpoint with operating key for switchover to day/night as well as the switching of three ventilator speeds

TQF10

TQF12

TQF14

TQF16

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TQF10, TQF12, TQF14, TQF16 Room Service Module   **Device Description**

Technical data

Measured variable	Room temperature in residential and office space
Measuring system	Active measuring system KP10, 2.73 V at 0°C, TC 10 mV/C
Set value adjuster	digital, regulating knob with trend arrow
Measuring range	0..45°C

Control buttons

TQF12	☼	Key	Switchover to day operation, automatic for blower
	☾	Key	Switchover to night or lowering operation, as well as automatic for ventilator
TQF14	⓪ ❶ ❷ ❸	Keys,	setting of the ventilator speeds off, level 1, level 2, level 3
TQF16	☼	Key	Switchover to day operation, automatic for blower
	☾	Key	Switchover to night or lowering operation, as well as automatic for ventilator
	⓪ ❶ ❷ ❸	Keys,	setting of the ventilator speeds off, level 1, level 2, level 3

Backlighting of the keys depending on the configuration:
Steady burning light, on for 5 sec after keystroke or backlighting off

Housing	Hood, color RAL9010 (pure white)
Ambient conditions	Temperature 0..45°C, Humidity Non-condensing
QB interface	4-conductor, for the connection of a technolon® Single room control FBR100-L, line length max. 200m
Degree of enclosure protection	IP30
Dimensions	Width x height x depth: 82.5 x 82.5 x 30 mm
Assembly	Wall mounted/assembly in flush-mounted box
Weight	110 g

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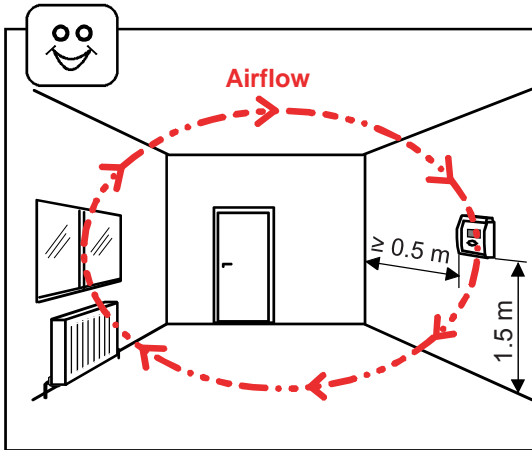## Device Description   TQF10, TQF12, TQF14, TQF16 Room Service Module
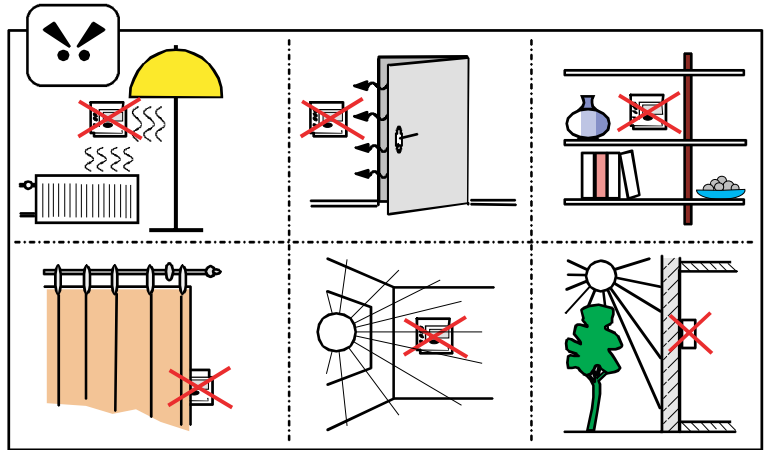
Assembly

⚠️ **Warning** **The assembly may only be carried out by qualified personnel on voltage-free switched connecting leads .**

The Room Service Modules TQF10, TQF12 and TQF16 can be assembled on the wall or in a flush-mounted box.

For rapid and correct measurement of the room temperature, the Room Service Module is to be assembled in such a way that the airflow of the room is included.
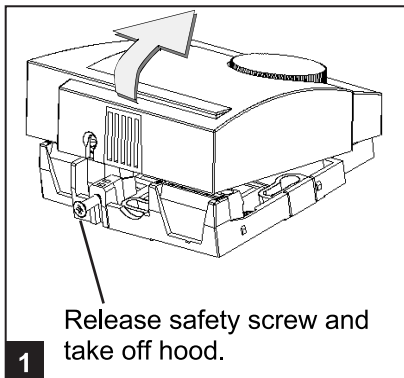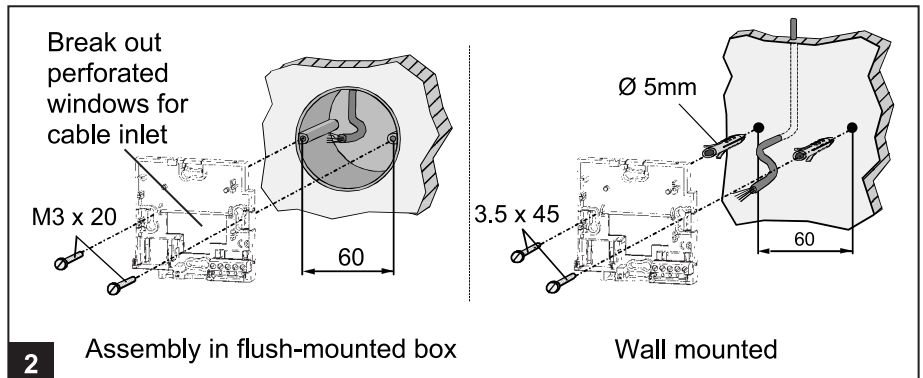
Airflow

≥ 0.5 m

1.5 m

correct

false

Assembly

Release safety screw and take off hood.

1

Break out perforated windows for cable inlet

M3 x 20

60

Assembly in flush-mounted box

Ø 5mm

3.5 x 45

60
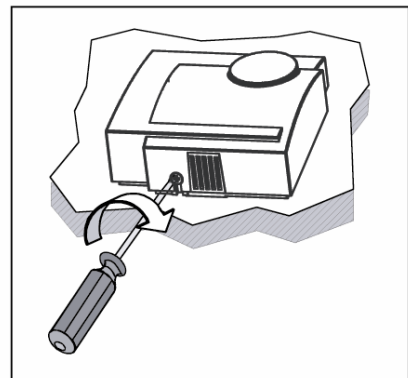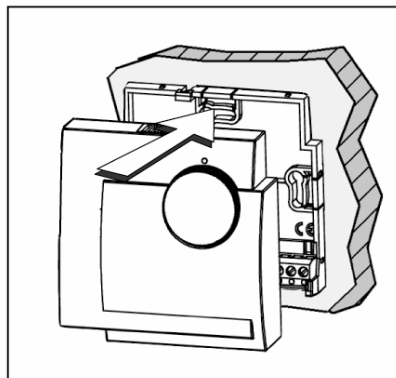
Wall mounted

2

Wire Room Service Module in accordance with terminal diagram (note Section Installation), attach hood and fasten securing screw.

3

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TQF10, TQF12, TQF14, TQF16 Room Service Module   **Device Description**
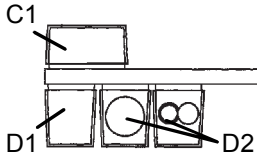
For surface-mounted or flush-mounted wiring, the hood and base have labeled housing parts that can be broken out depending on the cable leads.

👉 Furthermore, pluggable hood inserts are a part of the delivery which can be exchanged for the standard inserts :

Note

C1

D1 ... D2

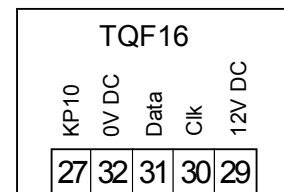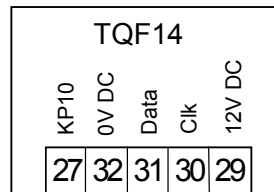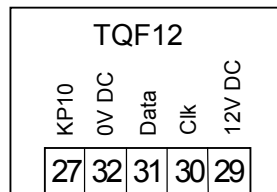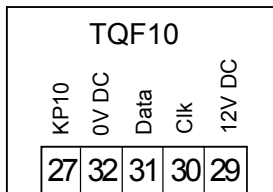|	
C1/D1	Inserts without air vents for greater wall influence.
D2	Inserts for cable inlet from below. The device protection type IP30 is only guaranteed when the air gap at the cable inlet is ≤ 2.5 millimeters.

Installation

⚠️ **The electrical installation and the Room Module connection may only be carried out by qualified personnel.**

Warning   This must be done in accordance with the VDE regulations and local specifications.

Connection

TQF10				
KP10	0V DC	Data	Clk	12V DC
27	32	31	30	29

TQF12				
KP10	0V DC	Data	Clk	12V DC
27	32	31	30	29

TQF14				
KP10	0V DC	Data	Clk	12V DC
27	32	31	30	29

TQF16				
KP10	0V DC	Data	Clk	12V DC
27	32	31	30	29

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