# Base station with pump and boiler control

TCC is the central connection unit of a room-by-room temperature control for the surface temperature adjustment of heating systems.

TCC is available in the versions with 8 zones in 230 V. With minimum expense, TCC can be wired toall system components as e. g. thermostats andactuators. The system components are supplieddirectly with the voltage supply of TCC. All switching commands for the thermostats are forwarded directly to the connected system components.

Feature:

Design with 8 zones	Pump and boiler control
230 V version	Control direction : NC (normally close)
A maximum of 16 actuators can be connected	High functional security
Equipment for heating	120s delayed start, prevent conflicts between internal and external water pump
Simple, intuitive installation and operation	
Status signalling by LEDs	Maintenance-free
Proven cable guide and standard-complying strain relief	Clearly structured connection terminals
	Screwless terminal connection technique

Device overview:
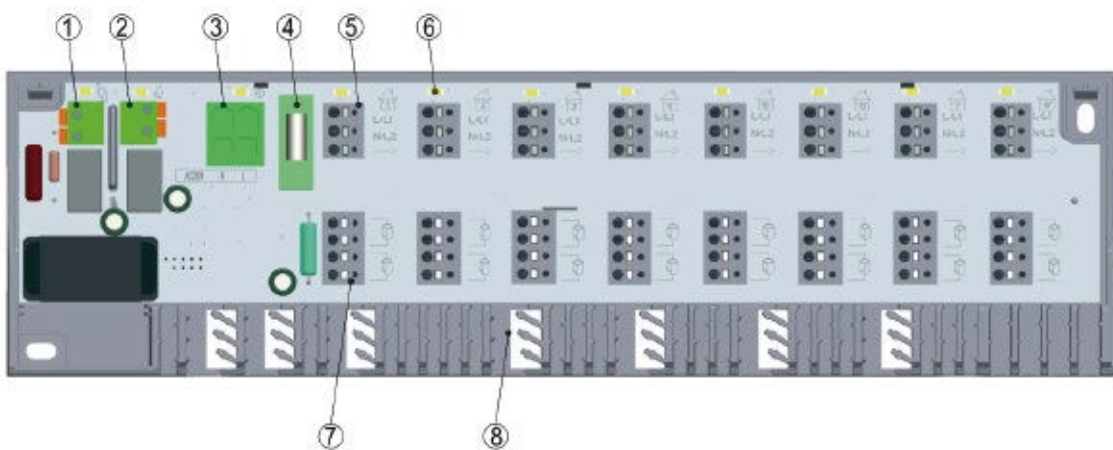
1	Pump control	• Potential-free contact for controlling a boiler circuit • Starting and switching-off delay predefined with 2 minutes
2	Boiler control	• Potential-free contact for controlling a pump circuit • Starting and switching-off delay predefined with 2minutes
3	Voltage supply/ through clamp	• Through clamp for the connection of electrical consumers as e. g. pump (only 230 Vversion)
4	Fuse	• Protects the INTCC direct by interrupting the circuit if the amperage exceeds a defined value for a predefined time.
5	Connection for thermostat	• Quick connection of up to 8 thermostats • Voltage supply for connected thermostats

| 6	Status signalling by leds	• Clear status signalling, also with the casing cover closed, for: Boiler/pump active (white) Operating status active (white) Heating zone active(white-one status LED per heating zone
7	Connection for actuators	• Voltage supply for connected actuators
8	Cable guide and strain relief	• Proven, integrated cable guide and strain relief according to DIN EN 60730-1

Technical Data:

Operating voltage		230 V / ±10% / 50 Hz
Voltage supply		Euro connector (accessory) / external voltage source
Max. power consumption (without pump/boiler consumer)		Max. 80 Watts
Fuse		5-10A
Max. number of thermostats		8
Max. number of connection terminals for actuators		16
Pump circuit		Active contact(potential contact)
Boiler circuit		Potential-free contact
Pump control and Boiler control	Switching power	2 A, 200 VA inductive
	Switching element	Relay
	Turn-on delay	2 min
	Follow-up time	2 min
Control direction normally closed (NC)		NC (Standard, Standard Plus without connected pump)
Admissible ambient temperature		0 to +50 °C
Admissible storage temperature		-20 to +70 °C
Admissible ambient humidity		80%,not condensing
Teperature for ball pressure test		550 ℃
Pollution		1500V
Rated impluse voltage		Screw-less terminals for 0.2 to 1.5mm², vertical cable entry
Connection line		Massive: NYM-J/NYM-O (max. 5 x 1.5 mm²)
		Flexible:H03V2V2H2-F / H05V2V2H2-F
Strain relief		Integrated
Standard and regulations E 60730-2		E 60730-2
Protection class		II
Protection		IP20

| Material	Cover:ABS
	Casing:ABS
Colour	Cover:Transparent,polished in the area of the leds
	Casing:light grey(RAL 7035)
Weight	510g
Dimensions(H x L x D)	90 x 324 x 52 mm
Type of installation	Wall installation
Indicators (LED)	Heating zone active:white
	Mains voltage on: white
	Pump/boiler active:white

Wall Installation:

Loosen the casing cover at both latching points with a screwdriver and remove it.
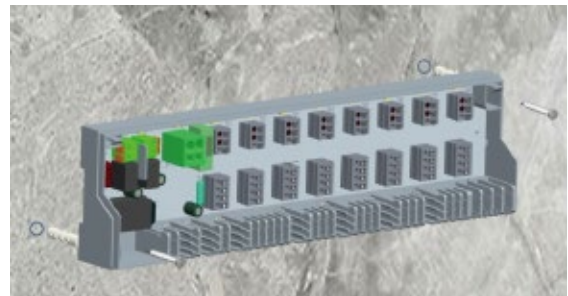
Mark the two fixing holes for the basis and drill them. The basis must horizontally aligned. Install the basis with dowels and screws (2 units M4) depending on the condition of the wall.
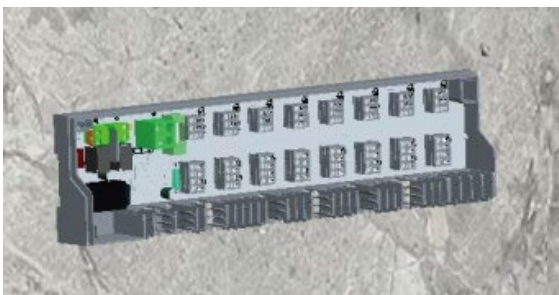
Align the basis and tighten the screws by hand.
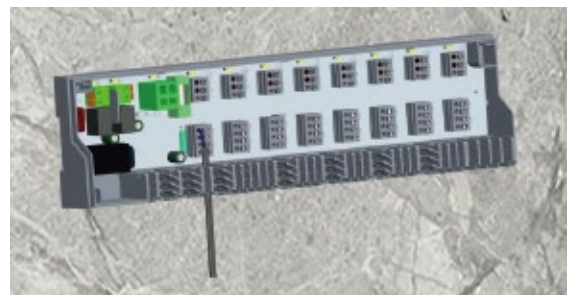
Lay the cables into the casing through the strain relief and install all cables to the basis using the clamping/plug-in technology; this is possible in a very short time.

Close the cover and apply mains voltage. Now the basis is ready to operate.