Aurora Temperature Controller

B4X-TEMDIS

smart-house temperature controller with display
Developed to fit into wall socket from Fuga, NICO an Bticino
Shows current room temperature
Shows outdoor temperature
Turns on/off heating and cooling
Set wanted room temperature
Energy Save through night setback temperature
Channel Programming using BGP-COD-BAT
The use of floor sensor is optional
Delivered with pre-programmed address on I/O 2
Delivered with both white and charcoal grey pushbutton covers
Non-activated inputs and backlight indicated by orange light
Orange LED can be de-activated by an internal dip switch
Activated inputs indicated by blue light

GENERAL SPECIFICATIONS

Channel programming	By BGP-COD-BAT and special cable: GAP-TPH-CAB. After mounting, reprogramming can be done by removing the slim pushbutton cover and pull the switch element with a a pair of pointed pliers (see drawing next page), and connect the cable to the connector on the back of the switch element.		I/O 4: Not programmed I/O 5: Not programmed
		Enclosure	Aurora 44 x 44 mechanics
		Environment	
		Degree of protection	IP 20
		Pollution degree	3 (IEC 60664)
		Operating temperature	0° to +50°C (32° to +122°F)
		Storage temperature	-20° to +70°C (-4° to +158°F)
No. of channels	2 needed + 3 Optional	**Humidity** (Non condensing)	20 - 80%
Channel assignment	I/O 1: Not programmed I/O 2: Pre-programmed to address B2 I/O 3: Not programmed	**Weight**	50 g
		Dimensions Aurora (WxHxD)	44 x 44 x 26 mm
		Max. wire in terminals	Max. 2 x 0.75 mm²

SUPPLY SPECIFICATIONS

Power supply	Supplied by smart-house
Consumption (typical)	
Activated (guidelight OFF)	1.5 mA
Activated (guidelight ON)	2 mA
Not activated (guidelight OFF)	0.6 mA
Not activated (guidelight ON)	1.1 mA

INPUT SPECIFICATIONS

Sensor	1 integrated temperature sensor
Range	0 - 50°C (32 - 122°F)
Precision	± 1°C
Floor sensor	**(not included)**
Temperature range	0 - 50°C (32 - 122°F)
Cable length	4 m
Cable consists of 4 wires:	
Brown	Connect to "+" on Temperature controller
White	Connect to "c" on Temperature controller
Yellow	Connect to "d" on Temperature controller
Green	Connect to "⊥" on Temperature controller

See wiring diagram

The floor sensor is an active 4-wire sensor and will only work together with the temperature controller unit.

TYPE SELECTION

Supply	Ordering no.
By smart-house bus	B4X-TEMDIS Delivered with both white and charcoal grey pushbutton covers. Frame not included. Floor sensor BSO-TEMDIG is not included.

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smart-house

Mode of Operation

Channel Programming

Using the BGP-COD-BAT programming unit, each of the 5 channels on the temperature controller can be assigned any address between A1 and P8. The programming socket can be accessed by removing the front of the housing. The allocation of the channels are as follows:

I/O	Description
Temperature Control / Needed I/Os	
1	Split I/O
2	DataLink Synchronization input
Optional I/Os	
3	Analink room temperature output
4	Floor temperature Analink output
5	Floor temperature Alarm High temperature output

* Note: If a description of the heating/cooling outputs is required, please consult the manual for the smart-house controllers BH8-CTRLX-230, BH8-CTRLZ and BH8-CTRLG. See paragraph 2.3.5 Please note that the unit can be programmed to both cooling and heating, but the mode required has to be selected on the display. For instance, cooling control can be selected during the sommer and heating control during the winter.

The temperature controller works with both floor sensor and Room sensor. It is possible to enter the smart-house controller software to change / program which sensor is used (or both), together with the Temperature controller.
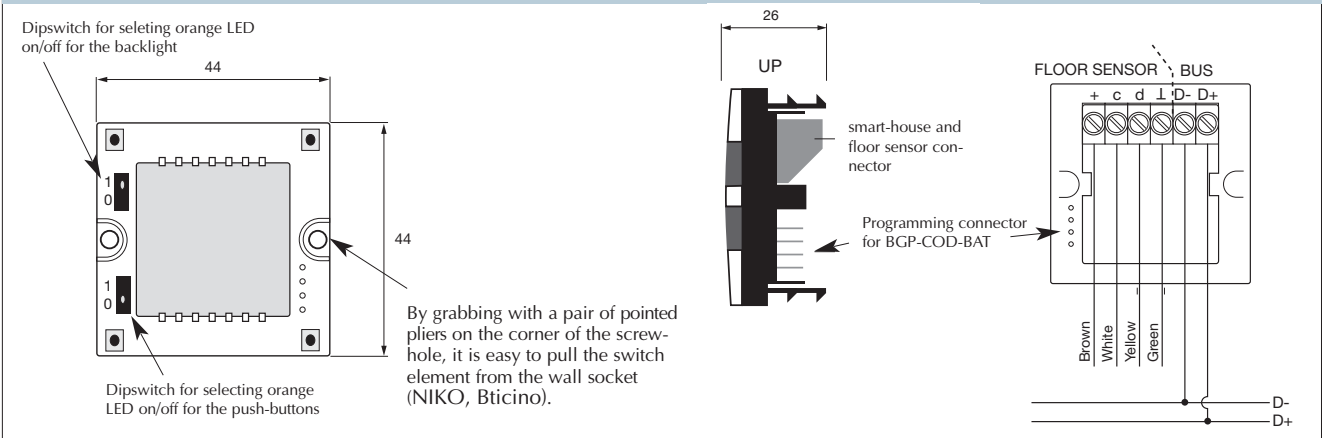
The switch has two colours of LEDs: Non-activated (orange LED). Activated (Blue LED). The orange LED for both switches and display can be de-activated by two internal dipswitches.

Symbol description:

On the display the following five symbols are used.

2 – Temperature symbol 2, indicates that the outdoor temperature is currently shown on the display.

– Heat symbol, indicating that a heat application is currently selected. When the symbol is blinking, the unit is heating. When the symbol is steady, Heat mode is selected.

– Frost symbol, indicating that a cooling application is currently selected. When the symbol is blinking, the unit is cooling. When the symbol is steady, Cooling mode is selected.

– Sun symbol, indicating that the current application is running in normal mode.

– Moon symbol, indicating that the current application is running in night setback mode.
Note: When the temperature controller is in "normal" mode, the user is able to override this mode by selecting "night setback ☾ " in the option menu.
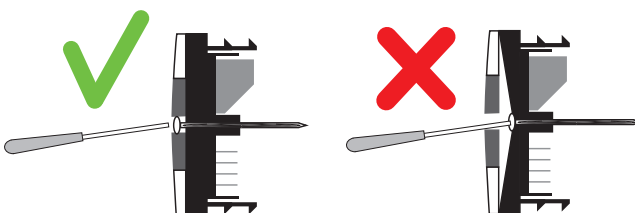
– Frost protection

WIRING DIAGRAM / DIMENSIONS

Dipswitch for seleting orange LED on/off for the backlight

44

44

Dipswitch for selecting orange LED on/off for the push-buttons

By grabbing with a pair of pointed pliers on the corner of the screw-hole, it is easy to pull the switch element from the wall socket (NIKO, Bticino).

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UP

smart-house and floor sensor connector

Programming connector for BGP-COD-BAT

FLOOR SENSOR BUS

+ c d ⊥ D- D+

Brown White Yellow Green

D-
D+

MOUNTING OF FUGA

NOTE: When using the Fuga type, use the standard screws for Fuga to attach the unit into the wall box.

IMPORTANT: Be careful not to overtighten!

ACCESSORIES

Programming cable to BGP-COD-BAT		GAP-TPH-CAB
Floorsensor		BSO-TEMDIG
Frame baseline (Fuga only)	white	40417
	charcoal grey	40460-1