

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 pair of pointed pliers (see drawing next page), and connect the cable to the connector on the back of the switch element.
No. of channels	2 needed + 3 Optional
Channel assignment	I/O 1: Not programmed I/O 2: Pre-programmed to address B2 I/O 3: Not programmed

	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)
Humidity (Non condensing)	20 - 80%
Weight	50 g
Dimensions	
Aurora (WxHxD)	44 x 44 x 26 mm
Max. wire in terminals	Max. 2 x 0.75 mm ²

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

TYPE SELECTION

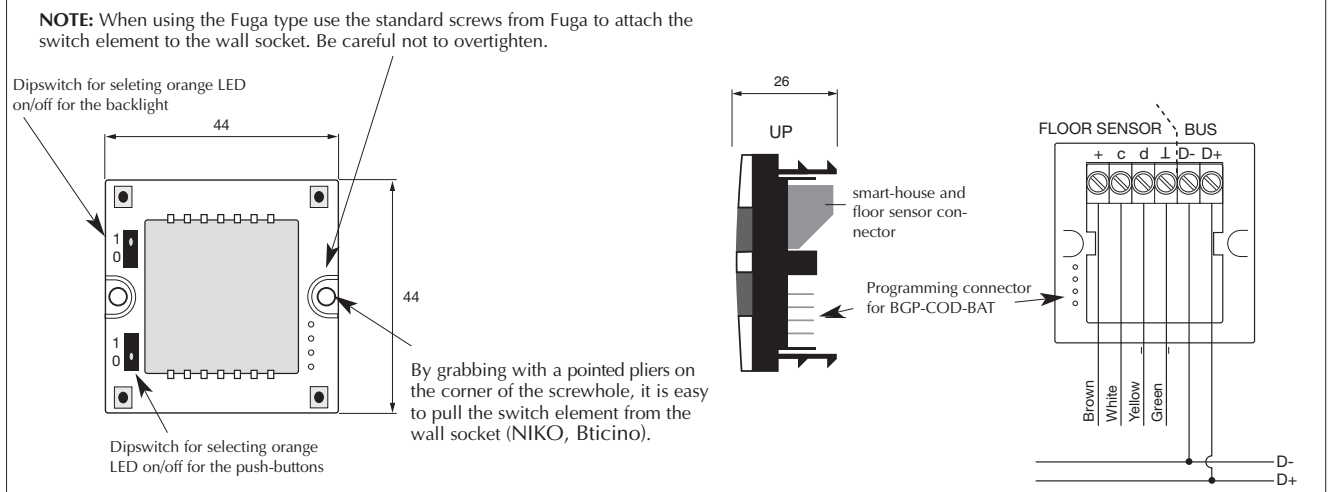
Supply	Ordering no.
By smart-house bus	B4X-TEMDIS
	Delivered with both white and charcoal grey pushbutton covers. Frame not included.
	Floor sensor BSO-TEMDIG is not included.

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 “1” 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.

WIRING DIAGRAM / DIMENSIONS



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
Needed I/O's	
1	DataLink Data Channel
2	DataLink Synchronization Channel input
Optional I/O's	
3	Analink Temperature output.
4	Floor thermostat Analink output
5	Floor thermostat 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 summer 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.

- Temperature symbol 2, indicates that the outdoor temperature is currently shown on the display.
- Heat symbol, indicating that a heat application is currently selected.
- Frost symbol, indicating that a cooling application is currently 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.
- Frost protection

ACCESSORIES

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