

BFW, BOW, BEW, BEL, BSI, B5X, B4X

Технические характеристики

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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.

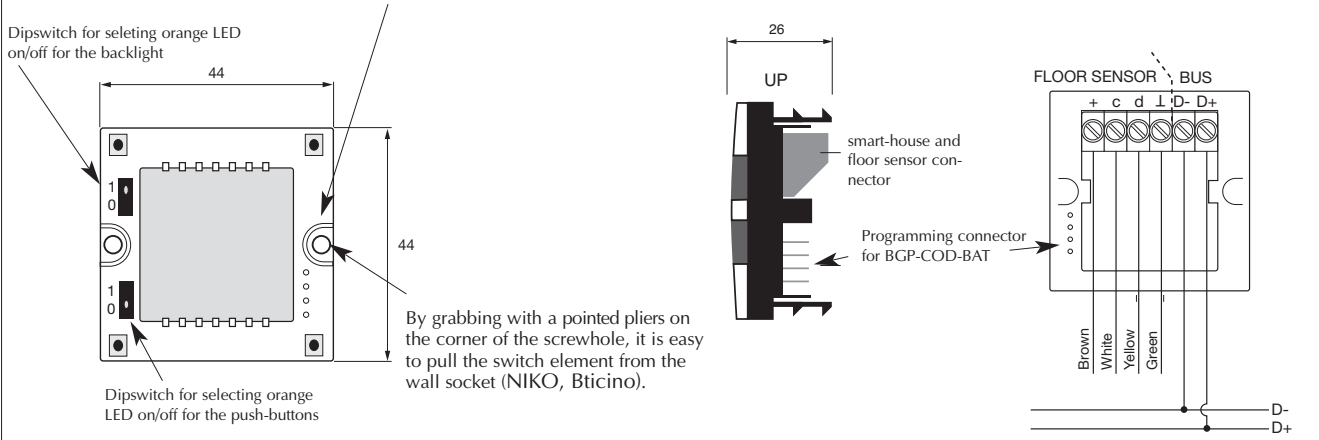
INPUT SPECIFICATIONS

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

NOTE: When using the Fuga type use the standard screws from Fuga to attach the switch element to the wall socket. Be careful not to overtighten.



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

B5X-TEMDIS

smart-house temperature controller with display

Developed to fit into wall socket from Elko, Gira and Jung

Shows current room temperature

Shows outdoor temperature

Turns on/off heating and cooling

Set wanted room/floor temperature

Energy Save through night setback temperature

Channel Programming using BGP-COD-BAT

Optional floor sensor

Delivered with pre-programmed address on I/O 2

Delivered with both white and black pushbutton covers

Non-activated inputs and backlight indicated by white light

White LED and white backlight can be de-activated by internal dip switches

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 connecting 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	Eunica 55 x 55 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	33 g
Dimensions	Eunica (WxHxD) 55 x 55 x 25 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	B5X-TEMDIS Delivered with both white and black 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 "L" 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.

Eunica Temperature Controller



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 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 (white LED). Activated (Blue LED). The white 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. 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

Starting Up




When the temperature controller is connected to the smart-house bus, the display digits will start flashing. The display will continue to flash until a complete status have been received from the smart-house controller. This will take approximately 1 min. When the temperature controller has received a complete status, the display will stop flashing and show the current application status and room or floor temperature.

Function Description

After the starting up has finished, normal operation will commence. In normal operation (Normal mode) the user has the following options:


Button	Description
	Show outdoor temperature
	Enter turn on/off menu
+	Enter adjust temperature set point menu
–	Enter adjust temperature set point menu

Outdoor temperature option

When pressing the  button the current outdoor temperature is shown in the display. A  symbol is also shown on the display to indicate outdoor temperature. The temperature controller will automatically go back to show the current room temperature (Normal mode) after the buttons have all been idle for approximately 5 seconds, or the user can single press the  button to exit.

***Note:** For this option to work correctly, an outdoor temperature sensor, BSI-TEMANA, must be connected to the smart-house bus and the option must be set up in the smart-house controller. If this is not done, the display will show 60.0 when this option is selected.


Option Menu

When pressing and holding the  button for 1/2 sec., the option menu for turning on/off heat, cooling etc. is selected. In this menu there are four possibilities:

1. Turn on/off Heating (heat symbol in the display).
2. Turn on/off Night setback for Heating applications (sun and moon symbols in the display).
3. Turn on/off Cooling (frost symbol in the display).
4. Turn on/off Night setback for Cooling applications (sun and moon symbols in the display)

When entering the option menu, the display will show with text what can be changed:

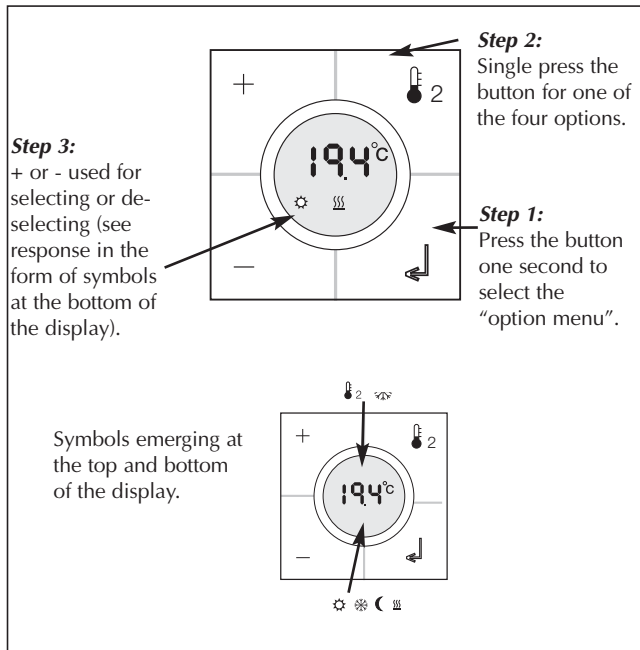
Nr.	Text in display	Description
1	HEAT	Heating can be turned on/off.
2	HES (Heat energy save/night setback)	Heat night setback can be turned on/off.
3	COOL	Cooling can be turned on/off.
4	CES (Cool energy save/night setback)	Cool night setback can be turned on/off.

To step through the four above possibilities single press the  button.

Eunica Temperature Controller



Option Menu (cont.)



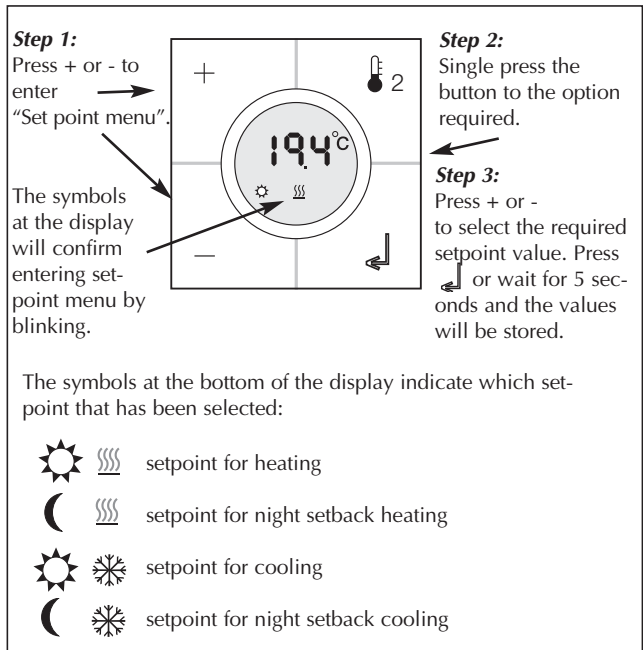
Any changes made will take effect when all buttons have been idle for approximately 10 seconds or when the user single presses the button.

Before any selection in the option mode can be made, the function has to be configured in the program in the smart-house controller first.

* Note: If a heating application is selected in the smart-house controller, it is only possible to turn on/off heat and night setback for heat. The same applies if a cooling application is selected. In this case it is only possible to turn on/off cool and night setback for cooling.

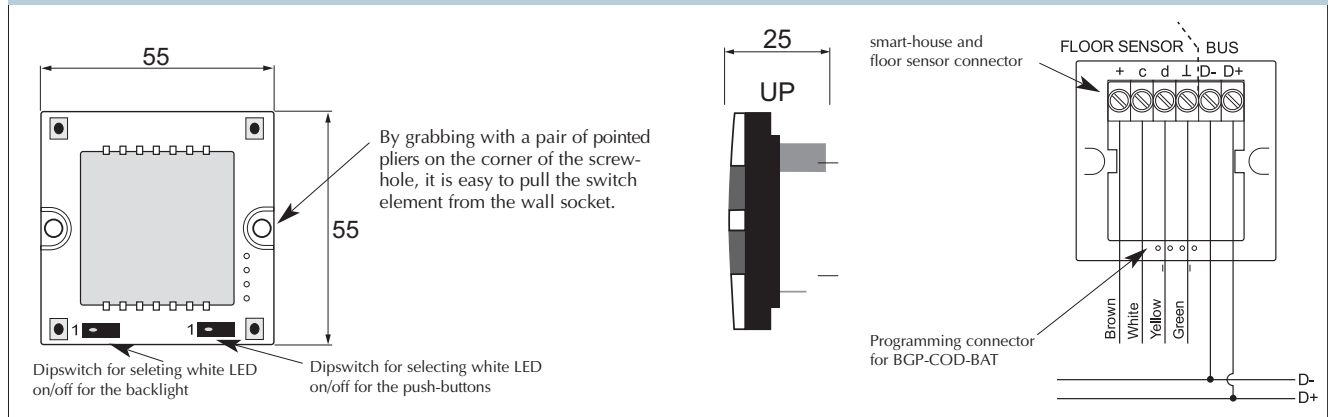
* Note: When a cooling application is running, cool will not be turned on automatically. The user must turn on the cooling by entering the turn on/off menu.

Setpoint Menu



* **Note:** If only a heating application is configured in the smart-house controller, it is possible to select only heating and night setback in the temperature controller. If both heating and cooling is configured in the smart-house controller, both modes can be accessed in the temperature controller.

WIRING DIAGRAM / dimensions



ACCESSORIES

Programming cable to BGP-COD-BAT
Floorsenso

GAP-TPH-CAB
BSO-TEMDIG

Temperature Sensor

CARLO GAVAZZI

BEL-TEMANA

AnaLink temperature transmitter with built-in Pt 1000 sensor

Temperature range: -30°C to +60°C (-22° to +140°F)

Uses only 1 channel

Channel coding by BGP-COD-BAT

Easily mountable

Supplied by smart-house



GENERAL SPECIFICATIONS

Channel programming	By BGP-COD-BAT
Channel assignment	1 channel, freely programmable
Environment	IP 20
Degree of protection	IP 20
Operating temperature	-30° to +60°C (-22° to +140°F)
Storage temperature	-55° to +85°C (-67° to +185°F)
Mechanical resistance	

Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)

Connection	
Screw terminal	Pin 1: D+ Pin 2: D-

Housing		
Material	Housing	ABS
	Plug	Nylon
Colour		Off-white
Dimensions (H x W x D)		84 x 84 x 34 mm

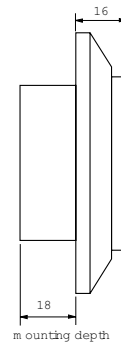
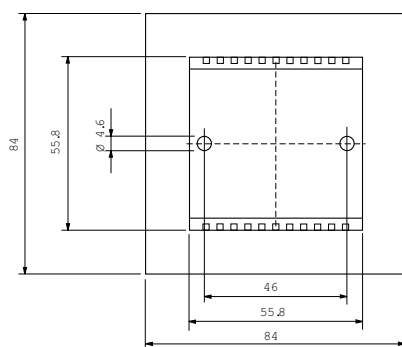
SUPPLY SPECIFICATIONS

Power supply	Supplied by smart-house
Rated operational current	typ. 800 µA

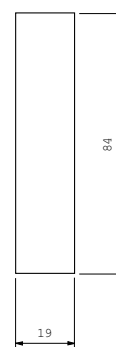
TYPE SELECTION

Supply	Ordering no.
By smart-house	BEL-TEMANA

DIMENSIONS



Surface mounting Frame



BEW-TEMDIS

- Smart-house temperature controller with display
- Display current room temperature
- Display outdoor temperature
- Turn on/off heating and cooling
- Set wanted room/floor temperature
- Energy Save through night setback temperature
- Channel Programming using BGP-COD-BAT
- The use of floorsensor is optional
- Delivered with pre-programmed address on I/O 2



GENERAL SPECIFICATIONS

Channel programming	By BGP-COD-BAT
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
Housing	ELKO

Environment	
Degree of protection	IP 20
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	
ELKO	86 x 86 x 24 mm
Max. wire in terminals	Max. 2 x 0.75 mm ²

SUPPLY SPECIFICATIONS

Power supply	Supplied by smart-house
Consumption	
LED OFF	< 0.5 mA
LED ON	< 1.2 mA

INPUT SPECIFICATIONS

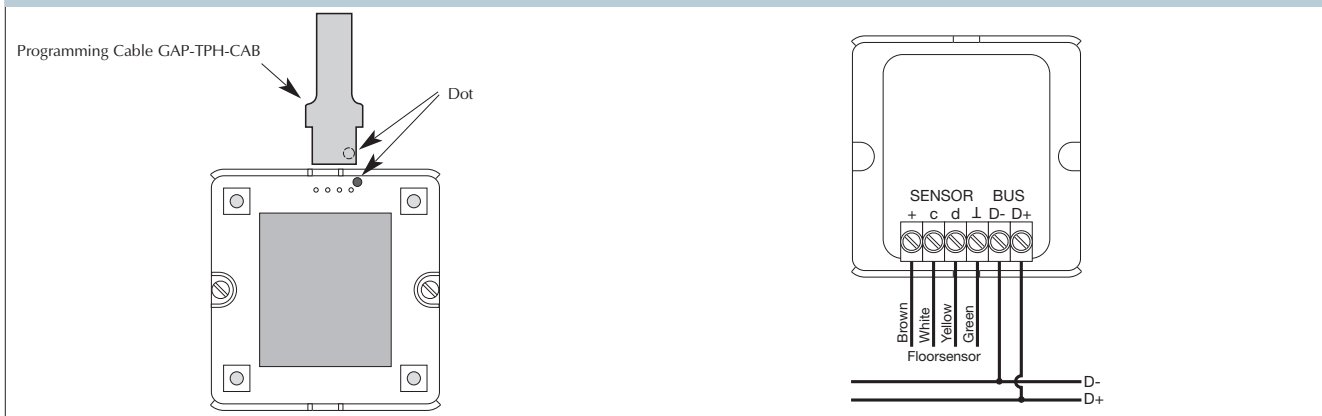
Sensor	1 integrated temperature sensor
Range	0 - 50°C (32 - 122°F)
Precision	± 1°C
Floor sensor	
Temperature range	0 - 50°C (32 - 122°F)
Cable length	4 m
Cable consists of 4 wires:	
Brown	Connect to "+" on Temperature controller
White	Connect to "c" on Temperature controller
Yellow	Connect to "d" on Temperature controller
Green	Connect to "L" on Temperature controller
"See wiring diagram"	

TYPE SELECTION

Supply	Colour	Ordering no.
By smart-house	White	BEW-TEMDIS
	Grey	BEG-TEMDIS
	Antrasit	BEA-TEMDIS

The sensor is an electrical sensor and will only work together with the temperature controller unit.

WIRING DIAGRAM



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/Os	
1	Temperature Control / Split I/O
2	DataLink Synchronization input
Optional I/Os	
3	Room temperature Analink 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 controller BH8-CTRLZx-230. 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.

Symbol Description:

On the display the following **six** 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. 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

Starting Up




When the temperature controller is connected to the smart-house bus, the display digits will start flashing. The display will continue to flash until a complete status have been received from the smart-house controller. This will take approximately 1 min. When the temperature controller has received a complete status, the display will stop flashing and show the current application status and room or floor temperature.

Function Description

After the starting up has finished, normal operation will commence. In normal operation (Normal mode) the user has the following options:


Button	Description
	Show outdoor temperature
	Enter turn on/off menu
+	Enter adjust temperature set point menu
–	Enter adjust temperature set point menu

Outdoor temperature option

When pressing the  button the current outdoor temperature is shown in the display. A  symbol is also shown on the display to indicate outdoor temperature. The temperature controller will automatically go back to show the current room temperature (Normal mode) after the buttons have all been idle for approximately 5 seconds, or the user can single press the  button to exit.

***Note:** For this option to work correctly, an outdoor temperature sensor, BSI-TEMANA, must be connected to the smart-house bus and the option must be set up in the smart-house controller. If this is not done, the display will show 60.0 when this option is selected.


Option Menu

When pressing and holding the  button for ½ sec., the option menu for turning on/off heat, cooling etc. is selected. In this menu there are four possibilities:

- Turn on/off Heating (heat symbol in the display).
- Turn on/off Night setback for Heating applications (sun and moon symbols in the display).
- Turn on/off Cooling (frost symbol in the display).
- Turn on/off Night setback for Cooling applications (sun and moon symbols in the display)

When entering the option menu, the display will show with text what can be changed:

Nr.	Text in display	Description
1	HEAT	Heating can be turned on/off.
2	HES (Heat energy save/night setback)	Heat night setback can be turned on/off.
3	COOL	Cooling can be turned on/off.
4	CES (Cool energy save/night setback)	Cool night setback can be turned on/off.

To step through the four above possibilities single press the  button.

ELKO Temperature Controller



Option Menu (cont.)

Step 3: + or - used for selecting or de-selecting (see response in the form of symbols at the bottom of the display).

Step 2: Single press the button for one of the four options.

Step 1: Press the button 1 second to select the "option menu".

Symbols emerging at the top and bottom of the display.

Any changes made will take effect when all buttons have been idle for approximately 10 seconds or when the user single presses the button.

Before any selection in the option mode can be made, a corresponding program in the smart-house controller must be programmed first.

* **Note:** If a heating application is selected in the smart-house controller, it is only possible to turn on/off heat and night setback for heat. The same applies if a cooling application is selected. In this case it is only possible to turn on/off cool and night setback for cooling.

* **Note:** When a cooling application is running, cool will not be turned on automatically. The user must turn on the cooling by entering the turn on/off menu.

Setpoint Menu

Step 1: Press + or - to enter "Set point menu".

Step 2: Single press the button to the option required.

Step 3: Press + or - to select the required setpoint value. Press or wait for 5 seconds and the values will be stored.

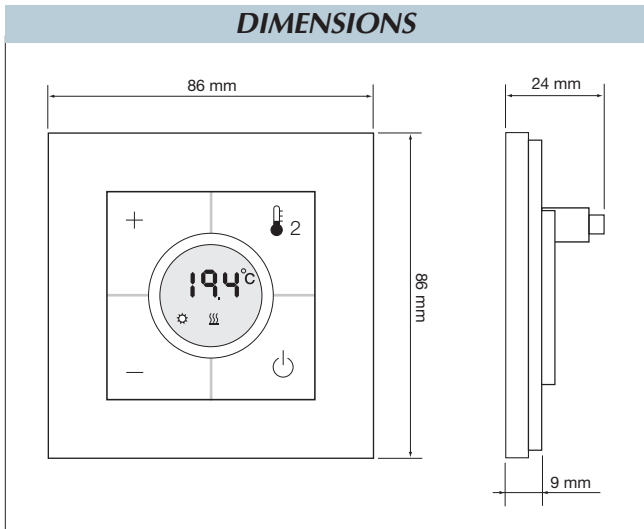
The symbols at the bottom of the display will confirm entering set-point menu by blinking.

The symbols at the bottom of the display indicate which set-point that has been selected:

- setpoint for heating
- setpoint for night setback heating
- setpoint for cooling
- setpoint for night setback cooling

* **Note:** If only a heating application is configured in the smart-house controller, it is possible to select only heating and night setback in the temperature controller. If both heating and cooling is configured in the smart-house controller, both modes can be accessed in the temperature controller.

DIMENSIONS



ACCESSORIES

- | | |
|----------------------------------|-------------|
| Programming cable to BGP-COD-BAT | GAP-TPH-CAB |
| Floor sensor | BSO-TEMDIG |

BFW-TEMDIS

Smart-house Temperature Controller with display

Display current room temperature

Display outdoor temperature

Turn on/off heating and cooling

Set wanted room temperature

Energy Save through night setback temperature

Channel Programming using BGP-COD-BAT



GENERAL SPECIFICATIONS

Channal programming	By BGP-COD-BAT
No. of channels	2 needed + 3 Optional
Housing	LK FUGA (no frame incl.)
Environment	
Degree of protection	IP 20
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	23 g
Dimensions	
Fuga	50 x 50 x 11 mm (no frame included)
Max. wire in terminals	Max. 2 x 0.75 mm ²

SUPPLY SPECIFICATIONS

Power supply	Supplied by smart-house
Consumption	
LED OFF	< 0.5 mA
LED ON	< 1.2 mA

INPUT SPECIFICATIONS

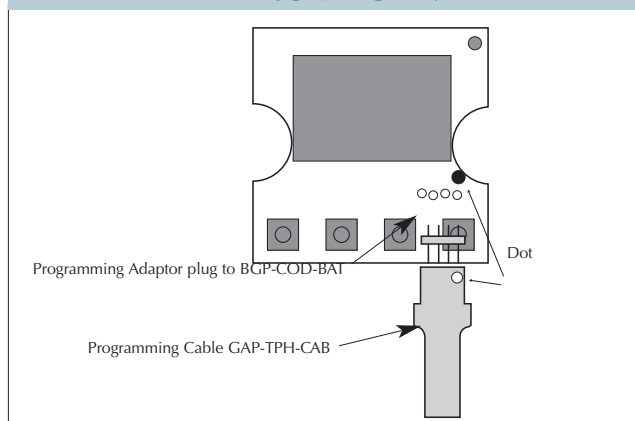
Sensor	1 integrated temperature sensor
Range	0 - 50°C (32 - 122°F)
Precision	± 1°C

TYPE SELECTION

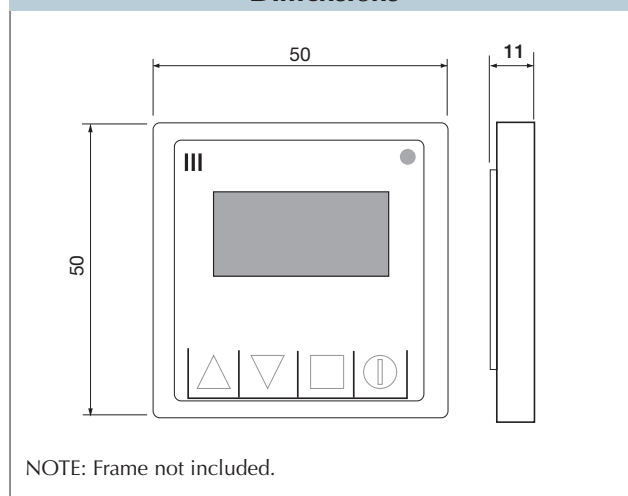
Supply	Colour	Ordering no.
By smart-house	White	BFW-TEMDIS

Frame not included

WIRING DIAGRAM



Dimensions



ACCESSORIES

Programming cable to BGP-COD-BAT		GAP-TPH-CAB
Frame Baseline	White	40417
	Grey	40414-1
	Charcoal Grey	40430-1

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 input/output Split I/O
2	DataLink Synchronization Channel input
Optional I/O's	
3	Analink Temperature output.
4	LED for Heat on/off indication (RED) input
5	LED for Cooling on/off indication (BLUE) input

*** Note:** If a description of the heating/cooling outputs is required, please consult the manual for MCG G3800 xxxx. 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.

***Note:** Not programming the 2 optional channels for Heat and Cooling LEDs, will not make the LEDs inactive they are just controlled by the Temperature Controller and will have slower reaction to changes in Heat/Cooling state.

Symbol description:

In the display the following five symbols are used.



– Tree symbol, indicates that outdoor temperature is currently shown in 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.

BFW-TEMTHE



Thermostat with built-in sensor

Temperature range: 10°C to +35°C (50° to +95°F)

Uses 3 channels

Heat on LED

Supplied by smart-house

Night set back: 4°C

GENERAL SPECIFICATIONS

Channel coding	By BGP-COD-BAT and special cable: GAP-TPH-CAB	Humidity (non condensing)	20 - 80%
No. of channels	3	Weight	50 g
Enclosure	LKNES FUGA Mechanics	Dimensions	50 x 50 x 33 mm (including frame)
Environment		Max. wire in terminals	Max. 4 x 0.75 mm ²
Degree of protection	IP 20		
Pollution degree	3 (IEC 60664)		
Operating temperature	0 - 50 °C (32 - 122°F)		
Storage temperature	-20 - 70°C (-4 - 158°F)		

SENSOR SPECIFICATIONS

Sensor	KTY 1000 (built-in)	Night set back	4°C
Temperature measuring range	10 to +35°C (50 to +95°F)	Time constant	Typ. 450 s (air flow = 0 m/s)
Temperature probe	KTY 81 (built-in)		Typ. 350 s (air flow = 1 m/s)
Accuracy	± 1°C at 22.5°C		
Hysteresis	± 0.25°C		

SUPPLY SPECIFICATIONS

Power supply	Supplied by smart-house
Consumption	
LED off	< 1.3 mA
LED on	< 2.3 mA

TYPE SELECTION

Supply	smart-house supplied	Ordering no.	BFW-TEMTHE
	Frame not included		

MODE OF OPERATION

If the temperature gets below the setting on the front plate scale, the thermostat starts transmitting on I/O 1. When the temperature gets above the setting, the transmission stops.

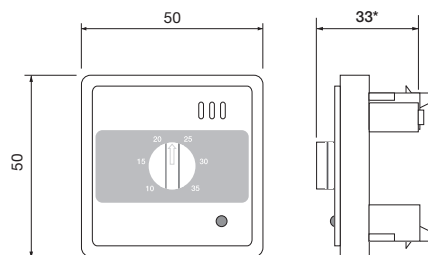
If the night set back channel on I/O 5 is activated, the thermostat automatically lowers the temperature 4°C.

The LED is placed on I/O 6 and indicates "Heat ON"

ACCESSORIES

Programming cable to BGP-COD-BAT	GAP-TPH-CAB
Frame Baseline	
White	40417
Grey	40414
Charcoal Grey	40430-1

DIMENSIONS (mm)



* + mounting clips

BOW-TEMDIS

Smart-house Temperature Controller with display

Display current room temperature

Display outdoor temperature

Turn on/off heating and cooling

Set wanted room temperature

Energy Save through night setback temperature

Channel Programming using BGP-COD-BAT



GENERAL SPECIFICATIONS

Channal programming	By BGP-COD-BAT
No. of channels	2 needed + 3 Optional
Housing	LK OPUS
Environment	
Degree of protection	IP 20
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	23 g
Dimensions	
Opus	66 x 66 x 10 mm
Max. wire in terminals	Max. 2 x 0.75 mm ²

SUPPLY SPECIFICATIONS

Power supply	Supplied by smart-house
Consumption	
LED OFF	< 0.5 mA
LED ON	< 1.2 mA

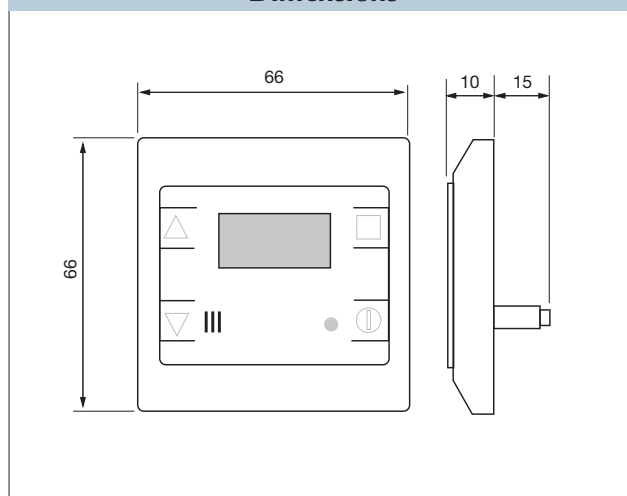
INPUT SPECIFICATIONS

Sensor	1 integrated temperature sensor
Range	0 - 50°C (32 - 122°F)
Precision	± 1°C

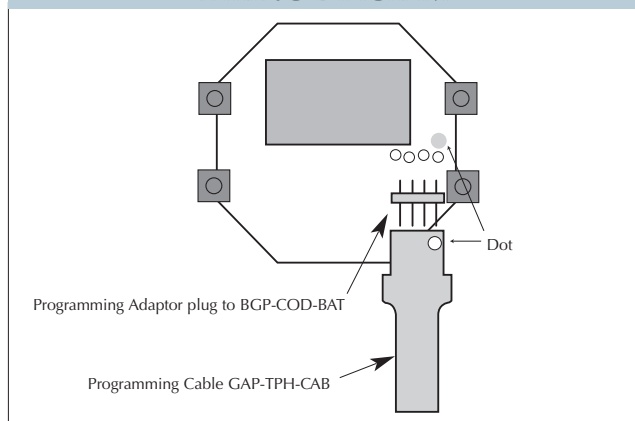
TYPE SELECTION

Supply	Colour	Ordering no.
By smart-house	White	BOW-TEMDIS

Dimensions



WIRING DIAGRAM



ACCESSORIES

Programming cable to BGP-COD-BAT
GAP-TPH-CAB

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 input/output Split I/O
2	DataLink Synchronization Channel input
Optional I/O's	
3	Analink Temperature output.
4	LED for Heat on/off indication (RED) input
5	LED for Cooling on/off indication (BLUE) input

*** Note:** If a description of the heating/cooling outputs is required, please consult the manual for MCG G3800 xxxx. 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.

***Note:** Not programming the 2 optional channels for Heat and Cooling LEDs, will not make the LEDs inactive they are just controlled by the Temperature Controller and will have slower reaction to changes in Heat/Cooling state.

Symbol description:

In the display the following five symbols are used.



– Tree symbol, indicates that outdoor temperature is currently shown in 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.

Thermostat with Built-in Temperature Sensor



BOW-TEMTHE

- Thermostat with built-in sensor
- Temperature range: 10°C to +35°C (50° to +95°F)
- Uses 3 channels
- Heat on LED
- Supplied by smart-house
- Night set back: 4°C



GENERAL SPECIFICATIONS

Channel coding	By BGP-COD-BAT and special cable: GAP-TPH-CAB
No. of channels	3
Enclosure	LKNES OPUS Mechanics
Environment	
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	0 - 50 °C (32 - 122°F)
Storage temperature	-20 - 70°C (-4 - 158°F)

Humidity (non condensing)	20 - 80%
Weight	50 g
Dimensions	66 x 66 x 33 mm (including frame)
Max. wire in terminals	Max. 4 x 0.75 mm ²

SENSOR SPECIFICATIONS

Sensor	KTY 1000 (built-in)
Temperature measuring range	10 to +35°C (50 to +95°F)
Temperature probe	KTY 81 (built-in)
Accuracy	± 1°C at 22.5°C
Hysteresis	± 0.25°C

Night set back	4°C
Time constant	Typ. 450 s (air flow = 0 m/s) Typ. 350 s (air flow = 1 m/s)

SUPPLY SPECIFICATIONS

Power supply	Supplied by smart-house
Consumption	
LED off	< 1.3 mA
LED on	< 2.3 mA

TYPE SELECTION

Supply	smart-house supplied
Ordering no.	BOW-TEMTHE

MODE OF OPERATION

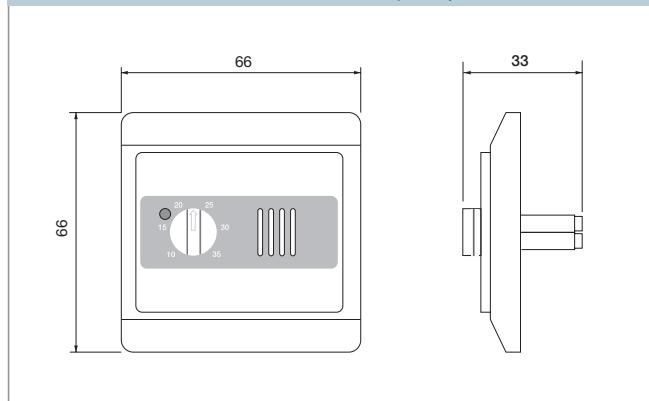
If the temperature gets below the setting on the front plate scale, the thermostat starts transmitting on I/O 1. When the temperature gets above the setting, the transmission stops.

If the night set back channel on I/O 5 is activated, the thermostat automatically lowers the temperature 4°C. The LED is placed on I/O 6 and indicates "Heat ON"

ACCESSORIES

Programming cable to BGP-COD-BAT	GAP-TPH-CAB
Opus wall mounting box	87-012

DIMENSIONS (mm)



Transmitter with Built-in Temperature Sensor



BSI-TEMANA

AnaLink temperature transmitter with built-in Pt 1000 sensor

Temperature range: -30°C to +60°C (-22° to +140°F)

Uses only 1 channel

Channel coding by BGP-COD-BAT

BSI-TEMANA is delivered with a M12 plug

BSI-TEMANAB is delivered with 2 m cable

Easily mountable

Supplied by smart-house

Delivered with pre-programmed address on I/O 1

GENERAL SPECIFICATIONS

Channel programming	By BGP-COD-BAT
Channel assignment	1 channel, freely programmable Note: The channel is pre-programmed to address B7
Environment	
Degree of protection	IP 67
Operating temperature	-30° to +60°C (-22° to +140°F)
Storage temperature	-55° to +85°C (-67° to +185°F)
Mechanical resistance	
Shock	15 G (11 ms)
Vibration	2 G (6 to 55 Hz)

Connection		
BSI-TEMANA		M12 plug
BSI-TEMANAB		Cable: 3 x 0.34 mm ²
Housing		Flat-pack
Material	Housing	Polycarbonate
	Plug	Nylon
Colour		Light grey
Dimensions (l x w x d)		67 x 35 x 15 mm
Mounting		Direct wall mounting *)

*) To measure the air temperature, the sensor should not be wall-mounted, but should be exposed to air flow.

SENSOR SPECIFICATIONS

Sensor	PT 1000 (built-in)
Temperature measuring range	-30° to +60°C (-22° to +140°F)
Temperature probe	Typ. 800 µA
Accuracy	See curve below
Time constant	Typ. 450 s (air flow = 0 m/s) Typ. 350 s (air flow = 1 m/s)
Resolution	8 bits (approx. 0.35 K/LSB)

CONNECTIONS

M12 plug with terminals	Pin 1: smart-house D+ Pin 4: D-
Standard cable with M12 plug (IEC 60947-5-2)	
with 4 wires:	Brown: smart-house (1) D+ Black: (4) D Blue: (3) D- White: (2) D-
with 3 wires (1-3-4):	Brown: smart-house (1) D+ Black: (4) D- Blue: (3) D-
with 2 wires (1-4)	Brown: smart-house (1) D+ Blue: D-

Note: All wires must be connected.

TYPE SELECTION

Supply		Ordering no.
By smart-house	Without cable	BSI-TEMANA
	With cable	BSI-TEMANAB

SUPPLY SPECIFICATIONS

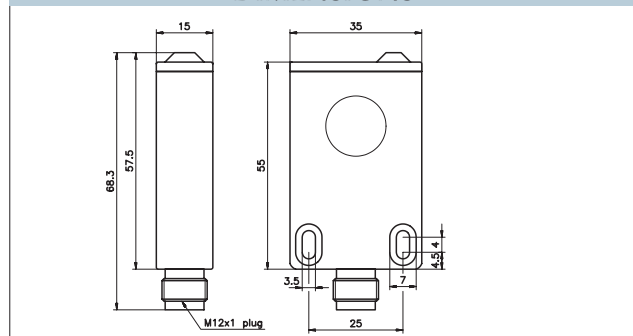
Power supply	Supplied by smart-house
Rated operational current	Typ. 800 µA

ACCESSORIES

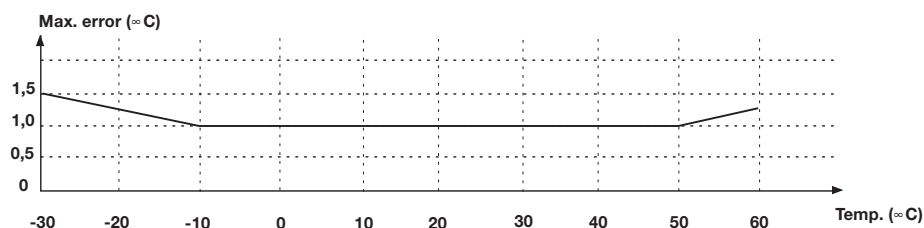
Coding cable	GTS-CAB
Angular M12 plug	CONG 1A-A2
Straight M12 plug	CONG 1A-A5
Cable with angular plug	CONG 1O-A2*
Cable with straight plug	CONG 1O-A5*

* Indicate length 2 m or 5 m.

DIMENSIONS



ACCURACY



По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
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Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

cgo@nt-rt.ru || <https://gavazzi.nt-rt.ru/>