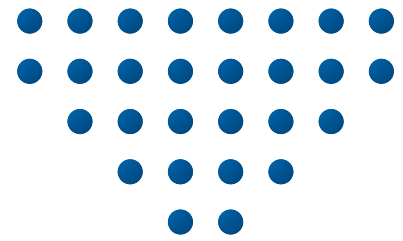


## EFRP



## HVAC CONTROLS AND POWER

# Temperature Controllers

The EFRP is a series of proportional temperature controllers designed to maintain the air temperature in heating and ventilation systems.

The EFRP is simple to install and commission, and can be used with a variety of sensors to suit different applications.

Adjustment of setpoint temperature, is achieved by a setting knob on the front of the controller. Additional settings for night setback displacement and variable p-band are also possible.

The EFRP has been developed to give our customers an advantageous combination of high quality, accurate control and low life cycle costs.

## EFRP FUNCTIONS

### Room Wall-Mounted Controller

EFRP-91 is attractively designed to fit into any office space, and to provide simple adjustment of the system. The outer frame matches some of the most common systems in Europe.

### DIN-Rail Mounted Controller

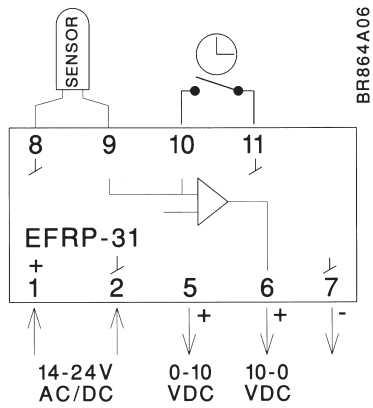
The EFRP-31 control is designed to fit to DIN rail in a control cubicle, or can be supplied for wall mounting via a mounting box ETNK.

### Proportional Output

The EFRP gives a 0-10V DC or 10-0V DC output, proportional to the variation in actual temperature to the required setpoint. Thus it can be used for heating or cooling applications.

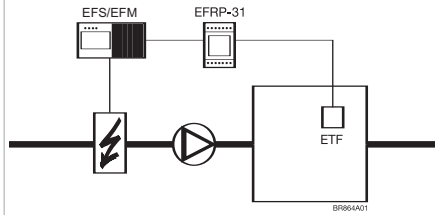
### Setback Temperature

By connecting an external timer it is possible to activate a temperature setback. The setback temperature is adjustable on the front of the EFRP-31 or under the cover of the EFRP-91.

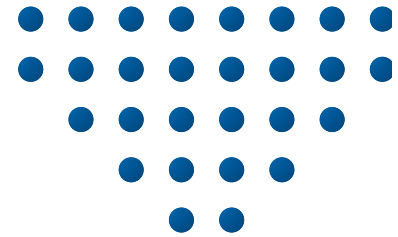


Wiring diagram EFRP-31

BR864A06



Application example



Dimensions EFRP-31

TECHNICAL DATA

SUPPLY VOLTAGE	SENSOR INPUT	OUTPUT SIGNAL
14-24V DC or 24V AC ±10%, 50/60Hz	NTC	0-10V DC, or 10-0V DC, max 2 mA
TEMPERATURE RANGE	SETBACK RANGE	P-BAND
0/+40°C	3-10°C	1-6°C
AMBIENT TEMPERATURE	POWER CONSUMPTION	
-10/+40°C	0.75 W	
PRODUCT	HOUSING	DIMENSIONS (W/D/H)
EFRP-31	IP20	52.5 x 58 x 86 mm
EFRP-91	IP30	84 x 27.8 x 84 mm
		WEIGHT
		EFRP-31: 112 g
		EFRP-91: 86 g

CE MARKING

The EFRP series meets the requirements of the below standards:

EMC DIRECTIVE

EN 61000-6-2

EN 61000-6-3

MOUNTING

Mounting of the EFRP-31

The EFRP-31 is mounted on a DIN-rail inside an enclosure with a suitable enclosure rating.

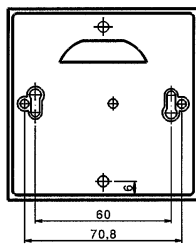
Mounting of the EFRP-91

The EFRP-91 is mounted on the wall or on the panel door in a normal office environment using two screws to secure the backplate to the wall.

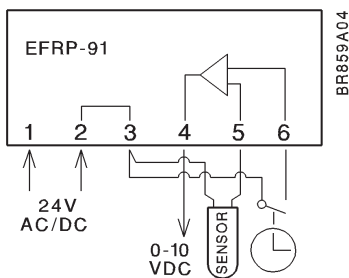
Mounting of the Control Cable

The sensor and control signal cable can be extended up to 50m from the controller. Control signal cable and sensor cable must not be placed in parallel with any mains carrying cables.

Dimensions EFRP-91



Wiring diagram EFRP-91



BR859A04

PRODUCT PROGRAM

TYPE	PRODUCT
EFRP-31	Heating or cooling controller for DIN rail
EFRP-91	Heating or cooling controller for wall mounting, or for installation on the door of a control cubicle

CONTROL EQUIPMENT AND ACCESSORIES

TYPE	PRODUCT
ETF-944/99	Room sensor for wall mounting
ETF-1144/99	Duct sensor
ETF-144/99	Floor sensor
ETNK	Enclosure for wall mounting IP54