P-BAND-2-24V ANALOG P REGULATOR

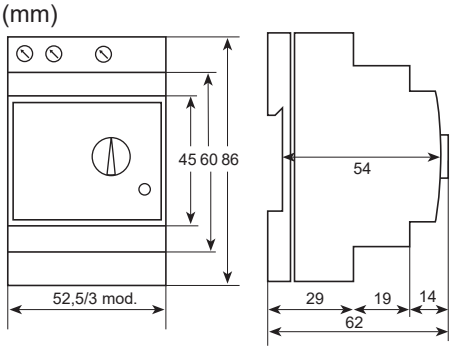
with adjustable P-band and adjustable MIN and MAX setting for output signal.

TECHNICAL DATA

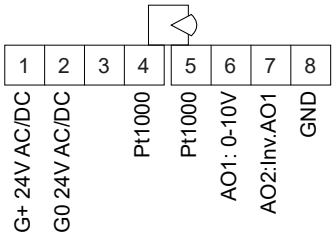
Supply voltage:	24V AC/DC
Power consumption:	0.7 W
Temperature sensor:	Pt1000
Output signals:	0-10V DC and 10-0V DC
Potentiometers	
- SP (Setpoint):	Setpoint value -20 to +20ºC
- P-BAND:	P band: 2-40ºC
- MIN:	MIN. output signal 0-40%
- MAX	MAX. output signal 60-100%
Mounting:	DIN rail, standard enclosure
Dimensions WxHxD:	52.5x86x59 mm
Weight:	90 grams
Protection class:	IP20
Light emitting diode indications	
- Operation:	Green
- Pt1000 sensor:	Green flashes in the event of short circuit or cable break.

DIMENSIONS

(mm)



CIRCUIT DIAGRAM



FEATURES

- **Adjustable setpoint: -20 to +20ºC**
- **Adjustable P band: 2-40ºC**
- **Adjustable MIN and MAX output signal**
- **24V AC/DC supply voltage**

FUNCTION

P-BAND is an analog P-regulator for a Pt1000 temperature sensor. It has a setpoint (SP) that can be set from -20 to +20ºC. This is the starting point for the P-band that can be set from 2 to 40ºC. P-BAND also has a percentage MIN and MAX setting for the output signals. The MIN and MAX settings do not affect the set value of the P-band. There is also a second signal (AO2) which is a fully inverted function of output signal 1 and the MIN and MAX settings.

Example setting 1

SP: 0ºC, P-BAND: 20ºC, MIN: 0%, MAX: 100%, current temperature: 5ºC gives:
AO1 = 2.5V and AO2 = 7.5V (inverted AO1)

Example setting 2

SP: 0ºC, P-BAND: 20ºC, MIN:10%, MAX:80%
1. Current temperature: 0ºC gives AO1 = 1V (AO2 = 9V)
2. Current temperature: 20ºC gives AO1 = 8V (AO2 = 2V)

USE

P-BAND-2-24V is used for temperature regulation.

MOUNTING

Mounted on a DIN rail, fits in a standard enclosure.

ORDERING EXAMPLE

Item code	Description
P-BAND-2-24V	Analog P-regulator for Pt1000 temperature sensor

FUNCTION DIAGRAM