



MPC^{net} 8TI/16TI

Features

- Up to 16 temperature inputs
- 3-wire Pt100
- Galvanic isolation between the inputs and the system
- Open-circuit/short-circuit detection

Description

The 8TI and 16TI temperature registering modules are suitable for the direct connection of 3-wire Pt100 temperature sensors.

They are operated and supplied by means of the MC32 controller. The internal, galvanically isolated bus connection is established by simply joining the modules.

The modules feature open-circuit/short-circuit detection. LEDs display the bus status messages and fault signals.

See System Description for the Installation Instructions.

➔ Technical data

Enclosure material

Polyamide PA

Protection class (EN 60529)

IP 20

Electrical connections

plug-in screw-type terminal, 3-pole
Terminal range 0.2 to 2.5 mm² numbered

Attachment to mounting rail

TH 35-15 DIN EN 60715 (metal)

Dimensions (W x H x D)

8TI 54.0 mm x 100 mm x 114.5 mm

16TI 88.0 mm x 100 mm x 114.5 mm

Weight

8TI 274 g

16TI 398 g

Storage and transport temperature

-30 °C to +70 °C

Operating temperature

0 °C to +60 °C

Degree of contamination

2

■ Electrical data

Number of channels

8TI 8 inputs

16TI 16 inputs

for 3-wire Pt100 in each case

Measuring range

-49 °C to +650 °C

Galvanic isolation

between inputs and internal bus

Line break/short circuit

per channel

automatic reporting by means of controller

Voltage supply

DC 24 V by means of an internal bus

Current consumption

8TI 91 mA

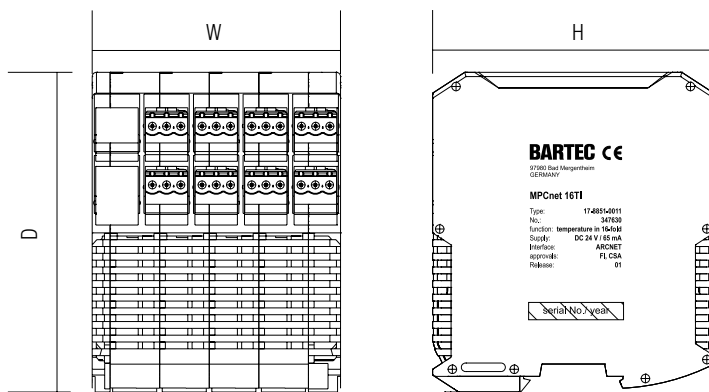
16TI 117 mA

Displays

LEDs in the front of the enclosure:

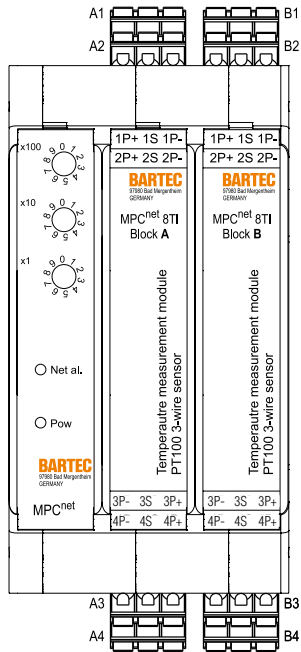
Status Net al. Pow.

Dimensions (in mm)



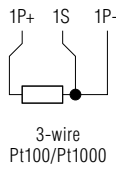
	W	H	D
8 TI	54.0	100	114.5
16 TI	88.0	100	114.5

Wiring diagram/terminal assignment



Terminal block	Terminal	Description	Terminal block	Terminal	Description
A1	1P+	Supply +	B1	1P+	Supply +
	1S	Signal		1S	Signal
	1P-	Supply -		1P-	Supply -
A2	2P+	Supply +	B2	2P+	Supply +
	2S	Signal		2S	Signal
	2P-	Supply -		2P-	Supply -
A3	3P-	Supply -	B3	3P-	Supply -
	3S	Signal		3S	Signal
	3P+	Supply +		3P+	Supply +
A4	4P-	Supply -	B4	4P-	Supply -
	4S	Signal		4S	Signal
	4P+	Supply +		4P+	Supply +

Example of connection



➔ **Order no.**
Remote MPC^{net} 8TI I/O module
17-8851-0010

Remote MPC^{net} 16TI I/O module
17-8851-0011

Accessories
Pt100Ex 27-71-13..

Technical data subject to change without notice.