

Inline terminal - IB IL RTD 4/PT100-ECO - 2702499

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Inline ECO, Temperature measurement terminal, Analog RTD inputs: 4 (Pt 100), Connection technology: 2-wire, Transmission speed in the local bus 500 kbps, Degree of protection IP20, including Inline connector

Product Description

The terminal is designed for use within an Inline station.

It is used to acquire signals from resistive temperature sensors.

The measured values are depicted in standardized representation format.

Inline ECO terminals are approved for the temperature range from 0°C to +55°C. The electronics base and Inline connector are supplied as standard.

Why buy this product

- 4 analog inputs
- Connection of sensors in 2-wire technology
- Supported sensors: Pt 100
- Data format: standardized representation
- Diagnostic information in the process data word
- Diagnostic indicator

Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 203195
GTIN	4055626203195
Custom tariff number	85389091
Country of origin	Germany

Technical data

Note

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Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	12.2 mm
Height	119.8 mm
Depth	71.5 mm

Ambient conditions

Ambient temperature (operation)	0 °C ... 55 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	10 % ... 95 % (according to DIN EN 61131-2)
Permissible humidity (storage/transport)	10 % ... 95 % (according to DIN EN 61131-2)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP20

General

Mounting type	DIN rail
Net weight	69 g
Note on weight specifications	with connector
Diagnostics messages	Failure of the internal I/O supply I/O error message sent to the bus coupler
	Checksum error I/O error message sent to the bus coupler

Interfaces

Fieldbus system	Lokalbus
Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kbps

Inline potentials

Communications power U_L	7.5 V DC
Current consumption from U_L	typ. 56 mA
	max. 85 mA
I/O supply voltage U_{ANA}	24 V DC
Current consumption from U_{ANA}	typ. 7.3 mA
	max. 14 mA
Power consumption	typ. 0.67 W
	max. 0.97 W

Analog inputs

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Analog inputs

Number of inputs	4 (Pt 100)
Input name	Analog RTD inputs
Description of the input	Input for resistive temperature sensors
Connection method	Inline connector
Connection technology	2-wire
Note regarding the connection technology	Shielded
Sensor types (RTD) that can be used	Pt 100 (IEC 60751/EN 60751)
Nominal value of the current sources	1 mA (pulsed current, the data is valid during the sampling phase)
A/D conversion time	typ. 120 ms
Resolution A/D	24 bit
Process data update	< 10 ms
Protective circuit	Overload protection max. ± 40 V DC, 1 min.
Protective circuit/component	max. ± 40 V DC, 1 min.
Data formats	Standardized representation
Input filter time	120 ms (per channel)
Input filter	Digital filter

Electrical isolation

Test section	Bus logic (local bus, communications power) 500 V AC 50 Hz 1 min.
	Analog I/O 500 V AC 50 Hz 1 min.
	Functional earth ground 500 V AC 50 Hz 1 min.

Standards and Regulations

Protection class	III, IEC 61140, EN 61140, VDE 0140-1
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values