

## Inline terminal - IB IL TEMP 4/8 RTD/EF-PAC - 2897402

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Inline Modular analog input terminal; 8 inputs, RTD (resistance temperature detector), 4-wire connection method, complete with individually numbered I/O connectors

### Why buy this product

- Pt, Ni, Cu, KTY sensor types according to DIN and SAMA
- Measured value acquisition with 16-bit resolution
- Channel scout for optical channel identification
- Connection of sensors in 2, 3, and 4-wire technology
- Temperature stability
- Connection of 8 RTD temperature sensors and linear resistors in 4-wire technology
- Resistance values can be preset separately using configuration bits
- Additional representation in float format according to IEEE754
- Diagnostic and status indicators



### Key commercial data

Packing unit	1 pc
GTIN	 4 046356 288026
Weight per Piece (excluding packing)	221.6 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

#### Note

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

Width	48.8 mm
Height	119.8 mm
Depth	71.5 mm
Note on dimensions	Housing dimensions

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## Technical data

### Ambient conditions

Ambient temperature (operation)	-25 °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

Weight	190 g
Mounting type	DIN rail
Operating mode	Process data mode with 5 words/1 word PCP
Protection class	III, IEC 61140, EN 61140, VDE 0140-1
Test section	7.5 V supply (bus logics)/24 V analog supply (analog I/O) 500 V AC 50 Hz 1 min
	7.5 V supply (bus logics) / functional earth ground 500 V AC 50 Hz 1 min
	7.5 V supply (bus logics)/24 V supply (I/O) 500 V AC 50 Hz 1 min
	5 V supply, outgoing remote bus/7.5 V supply (bus logics) 500 V AC 50 Hz 1 min
	I/O / functional earth ground 500 V AC 50 Hz 1 min

### Interfaces

Designation	Inline local bus
Connection method	Inline data jumper
Transmission speed	500 kBit/s
Transmission physics	Copper

### Inline potentials

Communications power $U_L$	7.5 V DC (via voltage jumper)
Current consumption from $U_L$	typ. 95 mA
I/O supply voltage $U_{ANA}$	24 V DC
Current consumption from $U_{ANA}$	typ. 6 mA
Power consumption	typ. 0.85 W

### Analog inputs

Number of inputs	8
Input name	Analog RTD inputs
Description of the input	Input for resistive temperature sensors
Connection method	Spring-cage connection
	4-wire
Sensor types (RTD) that can be used	Pt, Ni, KTY sensors, linear resistors
Linear resistance measuring range	0 $\Omega$ ... 500 $\Omega$
	0 $\Omega$ ... 5 k $\Omega$

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## Technical data

### Analog inputs

	0 Ω ... 30 kΩ
Measuring principle	Sigma/Delta process
Measured value representation	16 bits (15 bits + sign bit)
Resolution A/D	24 bit
Process data update	1.8 s (Up to 3.3 s possible depending on operating mode)
Data formats	IB IL, S7-compatible

## Classifications

### eCl@ss

eCl@ss 4.0	27250303
eCl@ss 4.1	27250303
eCl@ss 5.0	27250303
eCl@ss 5.1	27242601
eCl@ss 6.0	27242601
eCl@ss 7.0	27242601
eCl@ss 8.0	27242601

### ETIM

ETIM 2.0	EC001431
ETIM 3.0	EC001596
ETIM 4.0	EC001596
ETIM 5.0	EC001596

### UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	43172015
UNSPSC 12.01	43201404
UNSPSC 13.2	43201404

## Approvals

### Approvals

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#### Approvals

UL Listed / cUL Listed / LR / DNV / GL / BV / GL-SW / ABS / cULus Listed / GL

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#### Ex Approvals

UL Listed / cUL Listed / ATEX / cULus Listed

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## Approvals

Approvals submitted

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### Approval details

UL Listed

cUL Listed

LR

DNV

GL

BV

GL-SW

ABS

cULus Listed

GL

## Accessories

Accessories

Device parameterization

Software - AX+ BASIC - 2985068



Software CD for FDT container for integrating device DTMs (free download)

## Inline terminal - IB IL TEMP 4/8 RTD/EF-PAC - 2897402

### Accessories

Software - AX DTM LIB - 2988065



DTM library

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### Labeling panel

Labeling field - IB IL FIELD 2 - 2727501

Labeling field, width: 12.2 mm



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### Plug

Inline connector - IB IL SCN-8 - 2726337



Connector, for digital 1, 2 or 8-channel Inline terminals

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### Terminal marking

Insert strip - ESL 62X10 - 0809492

Insert strip, Sheet, white, unlabeled, can be labeled with: Office printing systems, Plotter: Laser printer, Mounting type: Insert, Lettering field: 62 x 10 mm

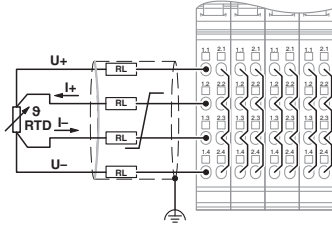


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### Drawings

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Connection diagram



Dimensioned drawing

