

# IB STME 24 TEMP 4 RTD - Replacement electronics module



2701958

<https://www.phoenixcontact.com/us/products/2701958>

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INTERBUS-ST analog input module, 4 inputs, RTD, 2-, 3-, and 4-conductor connection, IP20 degree of protection, consisting of: module electronics only

## Product description

The module is designed for use within an ST station.  
It is used to acquire signals from resistive temperature sensors.

## Your advantages

- 4 analog input channels for connecting resistance temperature detectors (RTDs)

## Commercial data

Item number	2701958
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	DRI343
GTIN	4046356895873
Weight per piece (including packing)	241.7 g
Weight per piece (excluding packing)	241.7 g
Country of origin	DE

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## Technical data

### Interfaces

#### ST local bus

No. of channels	2
Connection method	ST local bus connector
Transmission speed	500 kbps
Transmission physics	Copper

### Input data

#### Analog:

Input name	Analog RTD inputs
Description of the input	Inputs for resistive temperature sensors
Number of inputs	4 (for resistance temperature detectors)
Connection technology	2-, 3-, 4-conductor (shielded)
A/D converter resolution	24 bit
Sensor types (RTD) that can be used	Pt 100, Pt 1000, Ni 100, Ni 1000
Measuring principle	Sigma/Delta process
Measured value representation	16 bit two's complement

### Product properties

Product type	I/O component
Type	modular INTERBUS Smart Terminal
Operating mode	Process data mode with 4 words
Diagnostics messages	Failure of the internal I/O supply I/O error message sent to the bus coupler F1 fuse failure I/O error message sent to the bus coupler I/O supply failure I/O error message sent to the bus coupler

### Electrical properties

#### Supply: Module electronics

Connection method	ST local bus connector
Designation	Communications power
Supply voltage	9 V DC (from the ST local bus)
Current consumption	typ. 54 mA max. 80 mA
Power consumption	typ. 0.5 W

#### Supply:

Designation	$U_S$
Supply voltage	24 V DC
Supply voltage range	19.5 V DC ... 30.2 V DC (including all tolerances, including ripple)

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Current consumption	typ. 15 mA
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## Electrical isolation/isolation of the voltage ranges

Test voltage: Bus/Inputs	500 V AC, 50 Hz, 1 min
Test voltage: Supply voltage/inputs	500 V AC, 50 Hz, 1 min
Test voltage: Supply voltage/Ground conductor	500 V AC, 50 Hz, 1 min
Test voltage: I/O voltage/Ground conductor	500 V AC, 50 Hz, 1 min

## Connection data

Connection method	Snap on
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## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 55 °C
Degree of protection	IP20
Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

## Standards and regulations

Protection class	III (IEC 61140, EN 61140, VDE 0140-1)
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## Mounting

Mounting type	DIN rail mounting
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## Classifications

### UNSPSC

UNSPSC 21.0	32151600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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