

# IB STME 24 AO 4/EF - Replacement electronics module

2701954

<https://www.phoenixcontact.com/us/products/2701954>

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INTERBUS-ST analog output module, 4 outputs, 0 - 10 V,  $\pm 10$  V, 0 - 20 mA, 4 - 20 mA, comprising: Module electronics only

## Commercial data

Item number	2701954
Packing unit	1 pc
Sales key	DR03
Product key	DRI342
GTIN	4046356895736
Weight per piece (including packing)	248.6 g
Weight per piece (excluding packing)	241 g
Customs tariff number	85389091
Country of origin	DE

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## Technical data

### Interfaces

#### ST local bus

Connection method	ST local bus connector
Transmission speed	500 kbps
Transmission physics	Copper

### System properties

#### Programming data

Length code (hex)	4
ID code (dec.)	125
Length code (dec)	4
Input address area	0 Byte
Output address area	8 Byte
Parameter channel (PCP)	0 Byte
Register length (bus)	8 Byte

### Output data

#### Analog:

Output name	Analog outputs
Connection technology	2, 3-conductor
Number of outputs	4 (Voltage or current)
D/A conversion time	max. 1 ms (incl. slew rate)
D/A converter resolution	12 bit
Protective circuit	Transient protection; Suppressor diode
Representation of output values	16 bit two's complement
Current output signal	0 mA ... 20 mA (SF and SF4 mode) 4 mA ... 20 mA (Mode SF4)
Load/output load current output	to 500 $\Omega$
Voltage output signal	-10 V ... 10 V (Mode BP) 0 V ... 10 V (SF and SF4 mode)
Load/output load voltage output	> 2 k $\Omega$

### 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

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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)
Current consumption	typ. 48 mA (Mode BP) typ. 130 mA (SF and SF4 mode)

### Electrical isolation/isolation of the voltage ranges

Test voltage: Bus/Outputs	500 V AC, 50 Hz, 1 min
Test voltage: Supply voltage/Outputs	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

### ECLASS

ECLASS-13.0	27242601
ECLASS-15.0	27242601

### ETIM

ETIM 10.0	EC001596
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### 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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