

# SIL2-Transmitter power supply MSK 200i-TE

#### **Powerful Features:**

- SIL2-Transmitter in DuoTec-Failsafe Technology with self-monitoring
- Input for the supply of 2-wire transmitters
- Input for mA-current
- Analogue output for mA and V
- 3 individually adjustable limit values
- 1 service alarm
- Gradient alarm function
- Square root of the output signal
- Safe galvanic separation

#### Simple Operation:

- Configuration / visualization software WINSMART
- Diagnostic manager with fault memory
- BUS-Integration (RS 232 and RS 485)
- Power supply via DIN rail or terminal
- Simple assembling

#### **Certificated:**

- IEC 61508 / 61511 SIL2
- TÜV certificated according to DIN 19250 AK4
- ATEX II (1) G [EEx ia] IIC and ATEX II (2) G [EEx ib] IIC

### **Function**

The transmitter power supply unit MSK200i-TE is used for supplying of 2-wire transmitters and for processing of analogue mA-signals.

An electrically isolated mA / V output is available. The HART signal connection to the intrinsically safe power supply circuit can be done by using the front socket.

Alarm monitoring takes place by two relay contacts and one transistor output. Additional another relay contact output is available for signalizing the safety functions. All output circuits can be used in safety circuits and are galvanic isolated from each other and from the power supply.







MTP200 Universal

Universal transmitter MSK200 Transmitter power supply MTP300 Thermocouple transmitter MSK200-DP Voltage control system MSK200-DV mV transmitter MSK200-DX Voltage monitoring transmitter

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Galvanic separation	
Input/output/supply:	300 Veff (rated insulation voltage,
	Overvoltage category II, Contamination level 2 safe senaration as
	per EN 61010, EN 50178); 2.5 kV AC
	testing voltage (50 Hz, 1 min.)
Input/output:	375 V (peak value as per EN 60079-11)
Environmental condition	375 V (peak value as per EN 60079-11)
Acceptable temperature:	-20 °C +60 °C
Storage/transport:	-30 °C +80°C
Acceptable humidity:	10 % 95 % r.H. without condensation
T-1 to T-12	Screw-in connector /grey with 2.5 mm <sup>2</sup>
T-17 to T-24	Screw-in connector /blue with 2.5 mm <sup>2</sup>
T-B1 to T-B5:	TBUS- connector with 2.5 mm <sup>2</sup>
Housing	DDT
Material: Protection class:	PB1
Combustibility:	V0 to UL
Dimensions (BxLxH):	22.5 mm x 114.5 mm x 99 mm without
	terminals
Weight:	250 g
I ype: Installation/position:	terminal nousing for DIN rail mounting
Proceeding of self-monitori	na
Measuring input:	1 monitoring cycle (tolerance adjustable)
Analogue output:	1 monitoring cycle (tolerance adjustable)
Supply voltages:	2 monitoring cycles
Relay (REI 1 REL3)	indirect contact monitoring
Maintenance	Constant light of red front-LED and
requirement:	REL3-contakt opened
Conformity	
	EN60070 0 EN60070 11 EN60070 26
EX-directive (ATEX): EMV-directive 2004/108/EG	EN61000-6-2 EN61000-6-4 EN61326-1
ATEX-Daten (EEX laj liC	
Power supply circuits	
Voltage Ui:	< 25.8 V <65 mA
Power Pi:	<420 mW
Max. outer capacity Co	83 nF
Max. outer inductivity Lo	4 mH
mA-input circuit:	<20.1/
Current intensity I:	<30 v <110 mA
Power P <sub>i</sub> :	<700 mW
Max. capacity Ci	negligible
Max. inductivity Li	negligible
Mounting	
ME-MAX-Housing is combinal Connector. Because of the TE DIN rail, the RS485 interface a convenient. The TBUS Conne the participating devices. So ti preliminary or for subsequent	ble with a TBUS Connector/ Support Rail BUS-Connector, which is snapped in the and the supply voltage can be wired action occurs automatically in the grid of here is no need for an elaborated work of the TBUS Connection anymore.
Snap in TBUS-CONNECTOR	$R \rightarrow turn HOUSING \rightarrow DEVICE installed$
When using TBUS connector,	
	Use it to bridge the power supply und the RS485 interface!
	Mounting and removal Observe the direction of the
	module and the IBUS connector when snapping into position!

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Bei den Kämpen 26 D-21220 Seevetal-Ramelsloh Tel.: +49 4185/8083-0 Fax: +49 4185/8083-80 Mail: <u>muetec@muetec.de</u> Web: <u>www.muetec.de</u>