

SIL2 Universal Transmitter MTP 200i-TE

Powerful Features:

- SIL2-Transmitter in DuoTec-Failsafe Technology with self-monitoring
- Inputs: Resistor and Pt100 with 2-, 3- and 4-wire switch, all types of thermocouple, current, voltage
- 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 [Ex ia Ga] IIC and ATEX II (2) G [Ex ib Gb] IIC

Function

The universal transmitter MTP200i-TE converts various different input signals (mA, V, PT100, potentiometer, thermocouples, Thermocouple-resistance).

The configuration can be done simply via our software. An electrically isolated mA / V output is available.

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

transmitter

MSK200 Transmitter power supply **MTP300** Thermocouple transmitter

MSK200-DP Voltage control system MSK200-DV mV transmitter MSK200-DX Voltage monitoring transmitter



5/2016		
Technical Data		
Analogue Inputs (Al1	AI4) of MTP200i-TE	
A filter of first order (0.	1 – 99.9) is configurable	e for the measuring input
Measuring range:	-2222	2 mA, free configurable
Input resistance:	115	5Ω΄
V-input AI2 Measuring range:	-11 +11	V free configurable
Input resistance:	100) kΩ
Pt100 sensor input (I	DIN IEC 751) AI3	ad A suine ainessit
Measuring range:	2-, 3- ui -200+800	na 4-wire circuit
Scale range:	51000	D° C
Measuring current		l mA
Max loop resistan	ng: 0.01 ce: max 100	10
Remote potentiomete	er/resistance input (DI	N 43822) AI3
Connection:	2-, 3-, u	nd 4-wire circuit
Measuring range:	0600 resp 0 5000	Ω
Scale range:	3600	
Scale range.	resp. 35000) ⁽²
Measuring current	:: 1/0.2 ng: 0.01/0.1	2 mA
Max. loop resistan	ce: max. 100)Ω
mV-/ Thermocouple r	neasuring input Al4	
Measuring range:	-70+70) mV, free configurable
Max loop register	>10	
wax jood resistan	ce. 2000	
Thermocouple type	ce: 2000 es B; E; J;	K; L; R; S; T; U
Thermocouple type	ce: 2000 es B; E; J;))	K; L; R; S; T; U
Thermocouple type Analogue Output (AC A filter of first order (0.	ce: 2000 es B; E; J;)) 1 – 99.9) is configurable	K; L; R; S; T; U
Analogue Output (AC A filter of first order (0. Galvanic separation be	ce: 2000 es B; E; J;) 1 – 99.9) is configurable etween input, output and	K; L; R; S; T; U e for the measuring outpr d auxiliary power!
Analogue Output (AC A filter of first order (0. Galvanic separation be	ce: 2000 es B; E; J; D) 1 – 99.9) is configurable etween input, output and constant current	K; L; R; S; T; U e for the measuring output d auxiliary power! voltage
Analogue Output (AC Analogue Output (AC A filter of first order (0. Galvanic separation be Max. range: Standard separati	ce: 2000 es B; E; J; D) 1 – 99.9) is configurable etween input, output and constant current 022 mA	K; L; R; S; T; U e for the measuring outp d auxiliary power! voltage 011 V
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Analogue Output (AC Analogue Output (AC A filter of first order (0. Galvanic separation be Max. range: Standard range: Load: Accuracy: Load influence: Rise time:	ce: 2000 es B; E; J;) 1 – 99.9) is configurable etween input, output and constant current 022 mA 0.4-20 mA $\leq 500 \Omega$ at 20 mA 0.02 % of final value <0.005 % <150 ms	K; L; R; S; T; U for the measuring outp d auxiliary power! voltage 011 V 0/2-10 V min. 50 kΩ 0.02 % of final value 0.5 % at R _L =100 kΩ <150 ms
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Contact position: Closed in good condition Contact data: see REL1/REL2 Operating mode: Normally closed principle Alarm function: Maintenance requirement report Supply voltage

Supply indication: Green LED for good status Supply voltage range: 19 ... 30 VDC or 18 ... 28 VAC Power consumption: 1.2 W (for 24 VDC and 4 mA im AA) 1.5 W (for 24VDC and 20mA im AA) Interfaces (COM, RS485) Galvanic separation of the COM and RS485-interface to the auxiliary

energy and all other circuits! COM/RS232: Via front socket connection for PC



Mütec Instruments – Easy Measuring. Safe Measuring. Competent Measuring.

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