ANALOG PT100-TRANSMITTER





T03BU/WE

Analog Pt100-transmitter (transmitter 0 ... 10 V, set by our works)

General:

These transmitter are designed for industrial applications and are used to measure the temperature through Pt100 resistance thermometers in 2-/3-wire circuits connections. The 0 ... 10 V output signal is linear with temperature. The advantages of a continuous analog signal path and those of digital adjustment have been combined in the realization of this transmitter series.

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Specifications:		
Measurement input:	Pt100 (DIN EN60751)	
Measuring range:	-200 +850 °C	
Measuring span:	40 1050 K	
Zero shift:	at span <75 K: -40, -20, 0, +20 or +40 °C at span =75 K: ±50 °C at span >75 K: ±(span * 0.2 + 35 °C)	
Sensor connection:	2- or 3-wire connection	
Measuring current:	<0.5 mA	
Max. perm. line resistance (3-wire):	11 Ohm per conductor	
Sampling time:	continuous because of analog signal path	
Output signal:	0 10 Volt, 3-wire technology	
Setting time on a temperature change:	≤10 ms	
Transfer characteristic:	linear with temperature	
Transfer accuracy:	±0.2 % FS	
Calibration accuracy:	$\leq \pm 0.2$ °C or ± 0.2 % of measuring span	
Supply voltage: U _B	15 30 V DC	
Supply voltage error:	±0.01 % FS / V	
Permissible load R _L :	$R_L \ge 10 \text{ kOhm}$	
Load error:	≤ ±0.1 % FS	
Operating temperature:	-40 +85 °C	
Relative humidity:	0 95 % RH (non condensing)	
Storage temperature:	-40 +100 °C	
Electric connection:	via terminals, cross section of connection terminals max. 1.75 mm ²	
Housing:	PC-housing, suitable for installation in connection head acc. to DIN 43729 form B.	

Accessories and spare parts:

Hutschienenadapter

Operating position:

Protection rating: Weight:

Dimensions:

Art. no. 603659

Hat rail adapter for snap-on the T03 BU to top-hat rail

unrestricted

approx. 45 g

Ø 44 mm x 21 mm

Housing: IP54, connection terminals: IP00

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Greisinger		
Sensor co	nnection	
P2	Pt100 (2-wire)	
P3	Pt100 (3-wire)	
Measuring	g range	
MBS	-20 +20 °C	
MBS	20 60 °C	
MBS	30 60 °C	
MBS	-50 +50 °C	
MBS	-40 +100 °C	
MBS	0 100 °C	
MBS	-10 +110 °C	
MBS	0 120 °C	
MBS	0 180 °C	
MBS	0 200 °C	
MBS	-50 +100 °C	
MBS	-50 +200 °C	
MBS	50 250 °C	
MBS	0 250 °C	
MBS	0 300 °C	
MBS	0 600 °C	
MBS	-200 +850 °C	