

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.

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:	≤±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 ≥10 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.
Operating position:	unrestricted
Dimensions:	Ø 44 mm x 21 mm
Protection rating:	Housing: IP54, connection terminals: IP00
Weight:	approx. 45 g

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Greisinger	
Sensor connection	
P2	Pt100 (2-wire)
P3	Pt100 (3-wire)
Measuring 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

Accessories and spare parts:

Hutschienenadapter

Art. no. 603659

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