



TWO-WIRE UNIVERSAL TRANSMITTER (Microcomputer based)

BTT785

- Compact High Performance
- Fits Standard Small Heads (type B)
- DIN rail mounted (type C)
- 4 RTD and 6 thermocouples
- Linear current and voltage input
- 0.1% Accuracy error
- Universal programmable input
- Any Temperature Range within Limits
- Output Linear with Temperature
- Loop-powered
- Built-in digital filter
- Manual output control
- Adaptor for DIN Rail Mounting (type B)
- Accessories and Sensors Available
- Low cost

DESCRIPTION

The BASI intelligent non-isolated transmitter BTT785, is available in casings for in-head and for DIN-rail mounting as well as mounted into an IP65 protection box. This transmitter allows the user to:

- select sensor and input signal type
- select and adjust input range
- perform offset correction and device calibration
- specify input ranges and output type (4...20 mA / 20...4 mA)
- select decimal point position and measurement unit
- select output reaction at sensor break
- adjust the digital filter

The BTT785 transmitter is easy to program via the specialized configuration software "TraCon". Thanks to its large capabilities and low price, BTT785 can be very useful in various industrial applications requiring temperature conversion before following measurement and control.

SPECIFICATIONS GENERAL

Thermocouple K	: -20-1300°C
J	: -20-1000.0°C
T	: -40.0-400.0°C
R	: 0-1700°C
S	: 0-1700°C
B	: 100-1800°C
RTD Pt-100	: -100.0 – 850.0°C JIS or DIN
RTD Pt1000	: -100.0 – 600.0°C JIS or DIN
PTC 1k/2k at 25°C	: -50 – 150 °C
Current	: 0-20, 4-20mA
Voltage	: 0-100 mVDC
Special input	: On request specify (option)
Min range	: Min 50°C (Pt-100, Pt-1000 and PTC) Min 100°C (Termoelement)
Output	: Two-wire, 4-20 eller 20-4 mA
Digital filter	: Programmable
Digital peak filter	: Programmable
Maximum load	: 0 - 750Ω at 24VDC
Weight	: 40g (B), 60g (C), 180g (D)



INSTALLATION

Supply voltage	: 8 - 32 VDC +/-10%
Operating temp	: -20 to 85°C
Operating temp	: 0 to 90%, non-condensing
Programmability	: with "TraCon" software
Size and weight	: D43x30mm (head mount B) 35g
Size and weight	: 18x90x58mm (rail mount C) 90g
Size and weight	: 80x80x60mm (box IP65 D) 180g

PERFORMANCE

Accuracy error	: ±0.1%
Burnout	: Less than 3,8 or more than 20,2mA
Communication	: RS232 (requires special cable) Type B/D cable K1, type C cable K2 USB type B/D K1U, K11U type C K2U, K12U
Software	: "Tracon"
Cold junction comp:	: Automatic software +/- 0,5°C
EMC	: EN 50081-1, EN 50082-2, 89/336/EEC
UL	: E252086



ORDERING INFORMATION

BTT785-X-X-X

MOUNTING	SPECIAL INPUT	CABLE
B Headmount	S Standard	X No cable
C DIN-rail	Z Specify	1 Cable K1 &K2
D IP65 box		2 Cable USB, K1U K2U, K11U, K12U



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CONNECTION DIAGRAM

