

- Low-cost network transmitter - up to 32 devices
- Universal programmable input
- User-selectable 4 RTD types and 6 thermocouples
- Accepts linear current and voltage signals
- Built-in programmable digital filter
- Convenient programming through RS485
- Input / output / supply isolation
- Microcomputer based

DESCRIPTION

BTT781 is an intelligent rail-mountable transmitter with universal input and RS485 output, specially designed for multi-point process measurement and data acquisition in a network with up to 32 devices. This transmitter allows the user to: - select sensor and input signal type (4 RTD types, 6 thermocouples, and 4 linear signals); - select and adjust input range; - perform offset correction and device calibration; - select decimal point position and measurement unit; - adjust the digital filter. A network of up to 32 transmitters can be configured and monitored by using the universal BASI data-acquisition program "PolyMonitor". Thanks to its isolated universal input, networking capabilities, and low price, BTT781 is particularly suitable for multi-point data acquisition applications..

SPECIFICATIONS GENERAL

Construction : DIN-rail mounting
Wiring : Screw terminals
Housing material : "Noryl" grey
Isolation : Input to output to supply
 RS485 2500V

INPUT

Thermocouple K : -20-1300°C
J : -20-1000.0°C
T : -40.0-400.0°C
R : -0-1700°C
S : -0-1700.0°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 vid 25°C : -50 – 150 °C

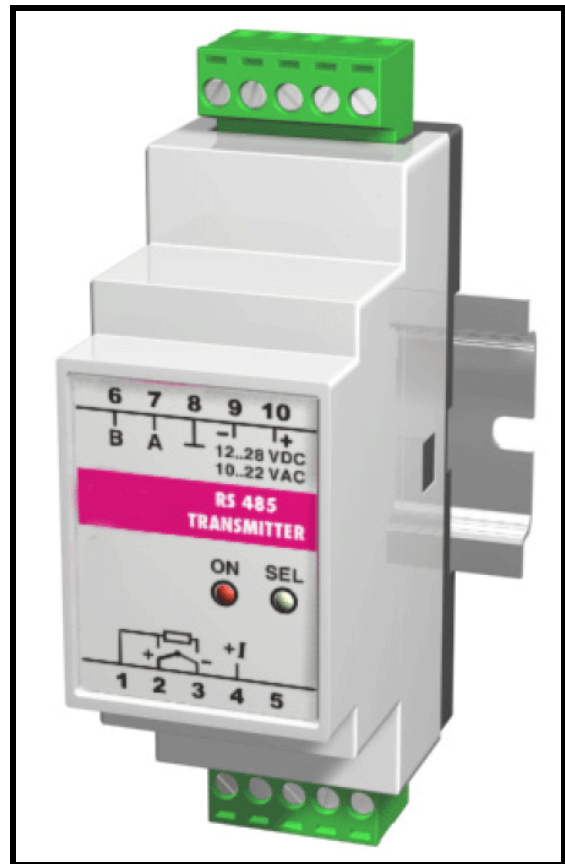
Current : 0-20, 4-20mA programmable
Voltage : 0-100mV, 0-10 VDC programmable
Custom linear : Specify
Range : Min 50°C (Pt-100, Pt-1000 and PTC)
 Min 100°C (Thermocouple)

OUTPUT

Interface : RS485
Function : Configuration and networking
Network devices : Up to 32
Format : 8 (data) + 1 (stop), even parity
Baud rate : 1200/2400/4800/9600 bps

INSTALLATION

Supply : 12 - 24VAC/DC
Consumption : Max 100mA
Ambient temp : -20 to 85°C
Humidity : 85%
Configuration : With "UniConf" software
Monitoring : "PolyMonitor"
Protection class : IP20
Dimension : 35 x 110 x 581mm
Weight : 90g



PROGRAMMABILITY

The BTT781 can be quickly reconfigured in the field to meet changing needs. The unit is fully programmable for input, 6 thermocouple types RTD, JIS or DIN, 0 to +100mV, 0 to +10VDC, 0/4-20mA, Input scaling Peak hold, digital filter. The transmitter is easy to program with BASI's software "UniConf".

PERFORMANCE (% of span)

Linearity error : < ±0.1% FS
Accuracy error : < ±0.15% FS
Temp drift : 0.01% from span for 1°C
Power consumption : Max 100mA
Peak holding time : Programmable
Offset : Within range
Damping : Programmable
Communication : RS485
Dielectric strength : 2500VAC @ 1 minute
Isolation : Input to output to supply
 (3way) 2500VDC/AC peak

ORDER INFORMATION

BTT781
PROTOCOL
 A ASCII
 B ASCII for "PolyMonitor"



If you select special input please specify range and type