

## Conductivity Transmitter v5 BCDT128

## DESCRIPTION

The BCDT128 is a 4-wire transmitter designed for any type of conductivity input and process signal output. The BCDT128 suits a wide range of conductivity measurement applications using suitable probes. Temperature compensation is also available as an option using probes with a built-in NTC thermistor or any other suitable compensation element. Excitation to the probe is via a low level AC voltage with short circuit protection to maximise the life of the probe. Final calibration is trimmed using the front accessible 'offs' and 'span' 15-turn trim adjustments. The output process signal is indicated by the front LED, giving a clear indication of module function, presence of signal, and output loop continuity (current outputs only). The Conductivity Transmitter has input/output isolation avoiding grounding problems with interfacing equipment due to the conductivity of the fluid forming a connection to ground potential. RF and power transient protection is standard as it is with all BASI modules. Various power supply choices are available varying from 240Vac down to 8Vdc, all provide power isolation.



## **General Specifications**

Size: 52 W x 70 H x 110 D (mm). Mounting: DIN-Rail, gear plate. Termination: Screw terminals on front. Protection class: IP40. 0.300 kg. Weight: Housing material: ABS. Accuracy: 0.1% of span. Front 'OFFS' adjust: ±20% typical Front 'SPAN' adjust: ±20% typical Temperature effect: 0.01% per °C. Operating temp. range: -10...+60°C. Storage temp. range: -20...+70°C. Input range: 1µS/cm up to 1000mS/cm. 800Hz bipolar square wave. Probe excitation: Output load effect: less than 0.2% up to max. load. Output loop drive: 10mA into 0 – 2000Ω 20mA into 0 – 900Ω 50mA into  $0 - 360\Omega$  . >2kV rms. Input/output isolation: Power requirements: 3W 2kV rms. Power supply Isolation:

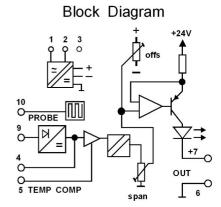
Electromagnetic compatibility: Complies with CE and AS/NZS

## Suitable conductivity probes with temperature compensation.

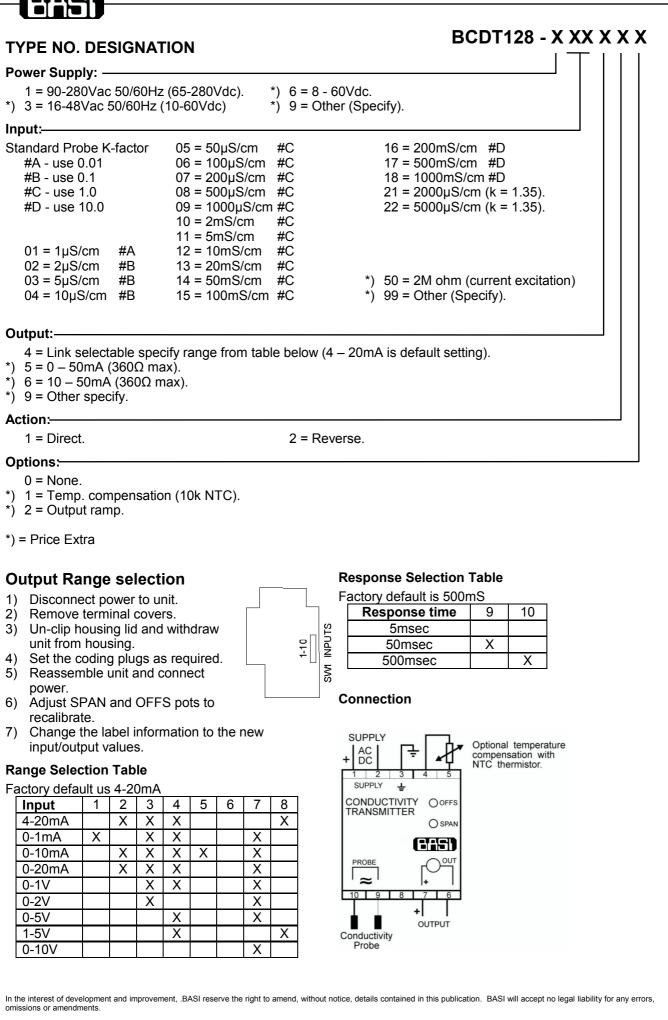
BASI: BPR128-1, k=1.0, temperature compensation = 10k NTC.

Any other probes can be used provided the thermistor characteristic is available. If temperature compensation is not required use standard probes.

For input / output combinations refer to TYPE NO. DESIGNATION overleaf.



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