

- ◆ Operates with 2-electrode contacting cells
- ◆ 0.1...100000 µS/cm measurement range
- ◆ Relay alarm / control output
- ◆ Analog retransmission output isolated from input
- ◆ Pt100, Pt1000 or NTC 1k temperature compensation
- ◆ Fully programmable

BCOT751 is a reliable conductivity transmitter, enclosed in a small housing for DIN-rail mounting or in box mounting, especially designed for clear, industrial, and sea water applications. It is compatible with BASI's conductivity probes series BCSK as well as other 2-electrode contacting conductivity cells within conductance range from 0.1 µS to 100 mS/cm, and has an additional Pt100, Pt1000 or NTC 1k input for automatic temperature compensation. The transmitter provides linear current or voltage output and can also be equipped with a relay alarm/control output. All device parameters (preset conductance ranges, analog output range and direction, relay set point, hysteresis, and direction, temperature compensation parameters, etc.) are user-programmable via the RS232 interface. Thanks to its wide measurement range, flexibility, programmability, and reliability, the BCOT751 transmitter is very suitable for water treatment and processing applications in the food, pharmaceutical, and many other industries.



Technical specifications

Input type	2-electrode contacting cell
Measurement range	0.1 µS to 100 mS
Selectable ranges	0.008 ...25 mS/cm
Temperature input	Pt100, Pt1000, NTC 1k
Temperature compensation	0.0...10.0 %/°C, selectable TDS
Accuracy	
Total measurement error	± 2% from span (incl. non-linearity)
Temperature drift	0.06% from span for 1 °C
Analog output	
Output signal	0(4)...20 mA, 0(2)...10 V, reversible
Resolution	0.025%
Current load	max. 750 Ω at 20 mA
Voltage load	max. 2 kΩ at 10 V
Isolation from input	1500 VAC for 1 min
Relay output	
MOS gate	0.1A/60V, optically isolated
Output function	ON/OFF, alarms
Set point	configurable via interface
Isolation from input	1500 VAC for 1 min

⁽¹⁾ Ordered separately (see 'Accessories')

Ordering code BCOT751-1.2.3.4.5

Code	Feature or option	Code values
1	Case	C – for rail, Y – box 80x80 mm
2	Relay output	X - none ⁽²⁾ , M - isolated MOS gate, Z - other (specify!)
3	Temperature compensation	X - none, BD - Pt100, BG - Pt1000, BN – NTC 1k, A - programmable
4	Serial interface	X - none, A – RS232 (TTL)
5	Analog output	X - none ⁽²⁾ , E - 0...20 mA, F - 4...20 mA, K - 0...10 V, L - 2...10 V, A - programmable

⁽²⁾ At least one output must be ordered!

Interface

Interface type	RS232 (TTL), requiring special cable ⁽¹⁾
Interface cable type ⁽¹⁾	K2, K2U, K12U

Power supply

Supply voltage	10...30 VDC
Consumption	max. 60 mA
Isolation from input	1500 VAC for 1 min

Operating conditions

Ambient temperature	-10...65 °C
Operating humidity	0...85 %RH, non-condensing
Storage temperature	-20...85 °C

Design and materials

Design and materials	'C'	'Y'
Case material	plastic	plastic
Mounting	on DIN rail	free mounting
Wiring	screw terminals	screw terminals
Dimensions	23x90x58 mm	80x80x60 mm
Weight	max.100 g	max.200 g
Protection class	IP20	IP65