



CONDUCTIVITY TRANSMITTER/CONTROLLER BCOT751 (3-way isolated)

DIN-rail mounting (22.5mm width)
 Operates with 2-electrode cells
 0.1 to 100000 uS measuring range
 Relay alarm/control output
 Analog retransmission output
 Pt1000 temperature compensation
 Fully programmable
 Isolated >1500V (3-way)

DESCRIPTION

The BCOT751 is a reliable conductivity transmitter enclosed in a small DIN-rail mounting housing especially designed for, industrial and sea water applications. It is well suited with BASI conductivity probes series BCSK as well as other 2-electrode conductivity cells within conductivity range from 01 µS to 100 mS. BCOT751 provides linear current or voltage output and relay alarm/control output as well. The device is equipped with additional Pt1000 input for automatic temperature compensation. All the transmitter/controller parameters are user-programmable via RS232 interface and free configuration software. They include: preset conductive ranges, analog output range and direction, relay set-point and hysteresis and direction, temperature compensation parameters, etc. Due to its wide range, flexibility, programmability and reliability, BCOT751 transmitter is very suitable for water treatment and processing applications in food, pharmaceutical and many other industries.

SPECIFICATIONS GENERAL

Construction : DIN-rail
Wiring : 8 Screw terminals
Housing material : PC plastic
Isolation : Input to output to supply (3-way) >1500V

INPUT

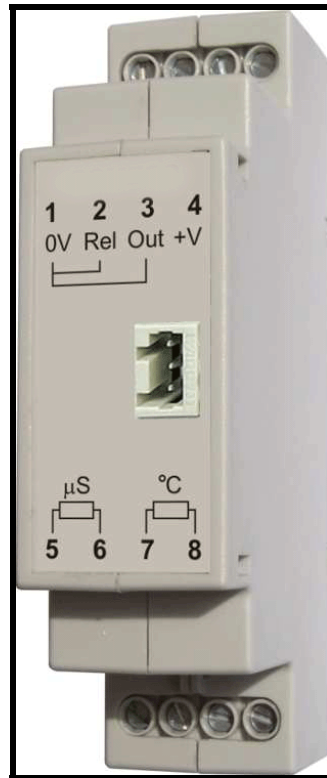
Type : 2-electrode conductivity cell
Measuring range : 0,1µS to 100mS
Selectable ranges : 0,1 – 10µS, 10 – 1000µS, 1 – 100mS
Temperature : Pt1000
Temp. Compensation: 0,0 to 10%/°C, selectable TDS

OUTPUT

Analog : 0(4)...20mA, 0-10V (reversible)
Current load : Max 0 - 750Ω at 20mA
Voltage load : Min 2kΩ at 10V
Custom : Specify
Relay : MOS gate, 0,1A/60V isolated
Function : Alarm (Hi, Lo, pulse), On/Off control
Set-point : Configurable via interface

INSTALLATION

Supply : 24VDC ±10%
Ambient temp : -10 to 65°C
Humidity : 0-85% RH
Configuration : Free software included
Protection class : IP20
Dimension : 23 x 90 x 58mm
Weight : Max 100g



PERFORMANCE (% of span)

Accuracy error : < ±1% FS (Incl. Non-linearity)
Temp drift : 0.06% from span for 1°C
Power consumption : 60mA
Configuration : Programmable via RS232
Software : Free software included
Communication : RS232 (requires special Cable)
Dielectric strength : 2000VAC @ 1 minute
Isolation : Input to output to supply (3way) 1500VDC/AC peak



ORDER INFORMATION

BCOT751	
RELAY OUTPUT	ANALOG OUTPUT
X None	X None
M MOS gate	E 0-20mA
Z Specify	F 4-20mA
	K 0-10V
	Z Specify

Z: Please specify output



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