

Cl₂, ClO₂, O₃ microprocessor transmitter, 4-20 mA – RS485 - Modbus

This transmitter powered with a dc voltage between 9 and 36 volt provides an isolated 4-20 mA "current loop", a RS485 and Modbus (function 03) outputs.

The instrument works with potentiostatic or polarographic cell and RTD Pt100 temperature sensors.

It provides manual and automatic temperature compensation. If an RTD is connected, the instruments provides the temperature reading. The temperature coefficient is selectable by the operator.

Its modularity, small dimensions and built-in technology make it suitable for measurements of oxidizers in various process applications.

Specifications

- Scales: 0 ÷ 2,000 / 0 ÷ 20.00 / 0 ÷ 200.0 ppm - mg/l
- Temperature scales: -10.0 ÷ 110.0 °C / 14.0 ÷ 230.0 °F
- Digital output: RS485 isolated
- Analog output: 4-20 mA isolated, "current loop" two wires, scalable
- Power supply: 9 / 36 Vdc
- Dimensions: 71x95x58 mm. Rail Din (4 modules)
- EMC/RFI conformity: EN 61326
- Registered design: 002564666-001



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Conductivity / TDS transmitter 4-20 mA and RS485

4-20 mA isolated 2-wire current loop
RS485 isolated interface
B&C and Modbus protocols
Alphanumeric LCD 8x1 characters
EC/TDS measurement
Conversion factor EC / TDS selectable
2 or 4 electrodes E.C. cell
K cell 0.1 - 0.5 - 1 - 10 selectable
5 selectable scales for each K cell
Software filter on the main measurement
Manual/automatic temperature compensation
°C or °F temperature display
Temperature coefficient selectable
Selectable reference temperature
Digital input with hold function
Recognition of the standard solution
Password at two levels
Last calibration date
Totalization of operating hours
Power 9/36 Vcc
Extractable terminal block
DIN rail enclosure

General informations

The transmitter can be configured for measurements of EC or TDS. Users may select from 5 different scales for each of the 4 K cells. It works with 2 or 4 electrodes probes. The measured values, along with support and instruction messages, are also visualized on an alphanumeric display. The transmitter displays the temperature value measured by a Pt100 and performs the manual/automatic compensation. The temperature coefficient and the reference temperature are selectable by the operator. The extractable terminal blocks and DIN rail mounting make easy the maintenance and the installation in the field.

Analog mode

The transmitter can be connected to a PLC or instruments BC 7335 - BC 7635 - BC 7635.010 or BC 7687 - BC 6587 which provide the Vdc power supply, measuring values, two set point and the alarm. The digital input can place the current loop on hold.

Digital mode

When in digital mode, the transmitter is a slave device interrogated by a master device with protocol B&C (ASCII) or Modbus (function 03). The analogue and digital modes can be used simultaneously.



Technical specifications

Display: alphanumeric LCD 8x1 characters
Inputs: 2 or 4 electrodes cell RTD Pt100 a 3 wires digital input (free voltage contact)
K cell: 0.1 - 0.5 - 1.0 - 10
EC scales: from 0/2.000 µS to 0/2,000 mS
TDS scales: from 0/1.000 ppm to 0/1,000 ppt
Temperature scales: -10.0/110.0 °C, 14.0/230.0 °F
EC/TDS conversion factor: from 0.450 to 1.000
Temperature compensation: manual/automatic
Temperature coefficient: 0/3.50 %/°C
Temperature reference: 20/25 °C
Zero: ± 10 %
Sensitivity: 60/160 %
Zero temperature: ± 5.0 °C, ± 9.0 °F
Analog output: 4-20 mA two wires isolated
Digital output: RS485 isolated
B&C ID protocol: 01 - 32
Modbus address: 0 - 243
Ambient temperature: 0/50 °C
Humidity: 95% without condensate
Power supply: 9/36Vcc
Consumption: < 4 mA with loop disabled
Isolation: 500Vdc input/output
Enclosure: DIN rail in polycarbonate
Terminal blocks: extractable
Weight: 250 g
Dimensions: 71 x 95 x 58 mm (4 DIN rail modules)
EMC/RFI conformity: EN 61326
Registered design: 002564666-001

The technical specifications could be changed without notice.

PH 3436

pH / ORP transmitter 4-20 mA and RS485

4-20 mA isolated 2-wire current loop

RS485 isolated interface

B&C and Modbus protocols

Alphanumeric LCD 8x1 characters

pH or ORP measurement

Manual/automatic temperature compensation

°C or °F temperature display

Digital input with hold function

Recognition of the standard solution

Password at two levels

Last calibration date

Totalization of operating hours

Power 9/36 Vcc

Extractable terminal block

DIN rail enclosure

General informations

The transmitter can be configured for the measurement of pH or ORP and it can also work with the antimony pH electrodes.

The measured values, along with support and instruction messages, are also visualized on an alphanumeric display.

The transmitter displays the temperature value measured by a Pt100 and performs the manual/automatic compensation (pH only).

The extractable terminal blocks and DIN rail mounting make easy the maintenance and the installation in the field.

Analog mode

The transmitter can be connected to a PLC or instruments BC 7335 - BC 7635 - BC 7635.010 or BC 7687 - BC 6587 which provide the Vdc power supply, measuring values, two set point and the alarm.

The digital input can place the current loop on hold.

Digital mode

When in digital mode, the transmitter is a slave device interrogated by a master device with protocol B&C (ASCII) or Modbus (function 03).

The analogue and digital modes can be used simultaneously.



Technical specifications

Display: alphanumeric LCD 8x1 characters

Inputs: pH electrode (glass/ref)

pH electrode (antimony/ref)

ORP electrode (Pt/rif o Au/rif)

digital input (free voltage contact)

pH scale: 0/14.00 pH

ORP scales: 0/1000 0/-1000 -1000/1000 0/2000

0/-2000 mV

Temperature scales: -10.0/110.0 °C, 14.0/230.0 °F

Temperature compensation: manual/automatic (pH)

Zero: ± 2 pH, ± 100 mV

Sensitivity: 80/110 % (glass and ORP electrodes)

Sensitivity: 70/140 % (antimony electrode)

Zero temperature: ± 5.0 °C, ± 9.0 °F

Input current: < 2 pA

Input resistance: > 10¹² ohm

Analog output: 4-20 mA two wires isolated

Digital output: RS485 isolated

B&C ID protocol: 01 - 32

Modbus address: 0 - 243

Ambient temperature: 0/50 °C

Humidity: 95% without condensate

Power supply: 9/36Vcc

Consumption: < 4 mA with loop disabled

Isolation: 500 Vdc input/output

Enclosure: DIN rail in polycarbonate

Terminal blocks: extractable

Weight: 250 g

Dimensions: 71 x 95 x 58 mm (4 DIN rail modules)

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