DO transmitter 4-20 mA 'current loop'

This transmitter powered with a dc voltage between 10 and 30 volt provides an isolated 4-20 mA "current loop" output.
It can be connected to different DO membraned polarographic and galvanic sensors.
It provides manual and automatic temperature compensation.
The instruments provides also the temperature reading.

Specifications

- Scales in %
- Temperature readout by means of Pt100
- Range: 0/199,9 % air saturation (other custom ranges available)
- Temperature range: -10/+120 °C
- Analog output: 4-20 mA isolated, "current loop" two wires
- Power supply: 10 / 30 Vdc
- Dimensions: 105x95x58 mm. Rail Din (6 modules)

C 3630

E. Conductivity Transmitter

Two wire 4/20 mA operation
Isolated current loop output
LCD Display
3 selectable scales
2 or 4 electrodes E.C. cell inputs
Automatic or manual temperature compensation
Temperature display
Frequency selectable
Decimal point selectable
10/30 Vdc power supply
Direct connection to PC's
Din Rail mounting
Detachable terminal block

General informations

The conductivity transmitter incorporates a large LCD display which is easily readable even from considerable distances.

The transmitter will display temperature values of manual or automatic temperature compensation devices.

The automatic temperature compensation is achieved with use of a 100 ohm platinum RTD, with temperature coefficient display.

The transmitter is powered by an external power supply from 10 to 30 Vdc. The same two wires which provide power to the transmitter also carry the 4/20 mA output conductivity signal. Zero and sensitivity (span) calibration adjustments are located on the front panel and are easily accessible.

The 4/20 mA output is isolated for input into recorders or other devices requiring a 4/20 mA input signal.
The input/output isolation also allows input into Personal Computers accepting 4/20 mA inputs.

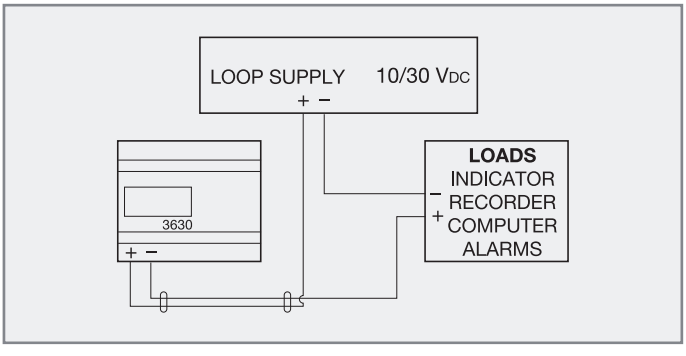
A common power supply may be used to power other transmitters without interference from other measurement devices or sensors.

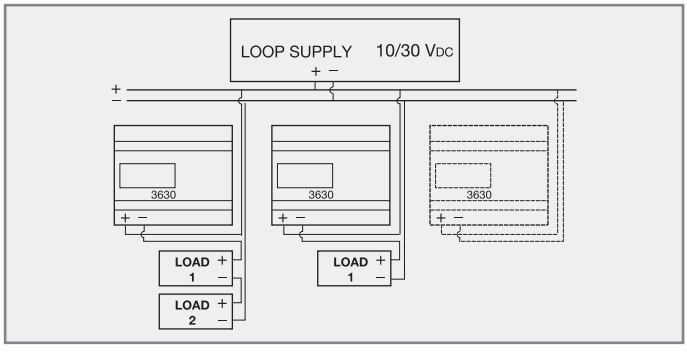
All plastic construction provides maximum resistance to corrosion. Detachable terminal block connectors and Din Rail mounting provide for easy field installation.

Technical Specifications

Display:	LCD
Inputs:	2-electrodes E.C. cell 4-electrodes E.C. cell RTD Pt 100 2 or 3 wire
Output:	4/20 mA isolated
Scales:	0/199.9 µS 0/1,999 µS 0/19.99 mS -10.0/120.0 °C
Temperature Compensation:	manual or automatic
Temperature Compensation Coefficient:	0/4.0 %/°C adjustable
Temperature Compensation Reference:	20 °C
Zero:	adjustable ±15%
Sensitivity:	adjustable from 86% to 112% narrow range adjustable 0/160% wide range
Operating Temperature:	0/50 °C
Operating Humidity:	0/95% R.H. non-condensing
Power supply:	10/30 Vdc
Isolation:	500 V input to output
Terminal block:	detachable
Net Weight:	200 g
Dimensions:	105 x 95 x 58 mm (6 modules)
Mounting:	DIN Rail (35 x 7.5 mm Rail)

The technical specifications could be changed without notice.





B&C electronics

CL 3630

Chlorine – D.Ozone 4/20 mA Transmitter

Two wire 4/20 mA operation
Isolated current loop output
Potentiostatic, polarographic and galvanic sensors input
LCD display
Temperature and TC display
Automatic or manual temperature compensation
10/30 Vdc power supply
Direct connection to PC's
Din Rail mounting
Detachable terminal blocks

General informations

The transmitters incorporate a large LCD display which is easily readable even from considerable distances.
Transmitters are powered by an external power supply from 10 to 30 Vdc. The same two wires which provide power to the transmitter also carry the 4/20 mA output signal.
The 4/20 mA output is isolated from the input.
The isolation allows the connection to PLC, DCS or Personal Computers accepting 4/20 mA signals.
The transmitter will display temperature and the temperature coefficient values of manual/automatic temperature compensation.
The automatic temperature compensation is achieved with the use of a Pt100.
Detachable terminal block and Din Rail mounting enclosure provide for easy field installation.

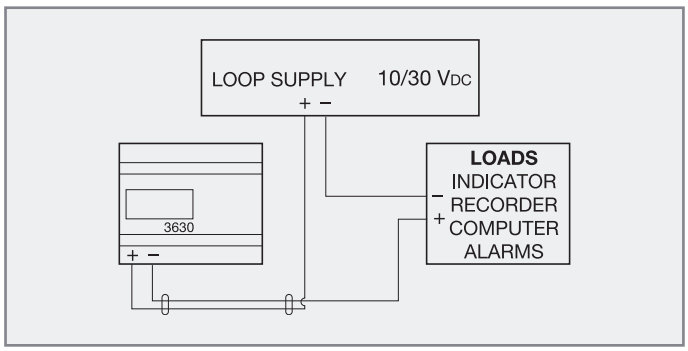
Sensors

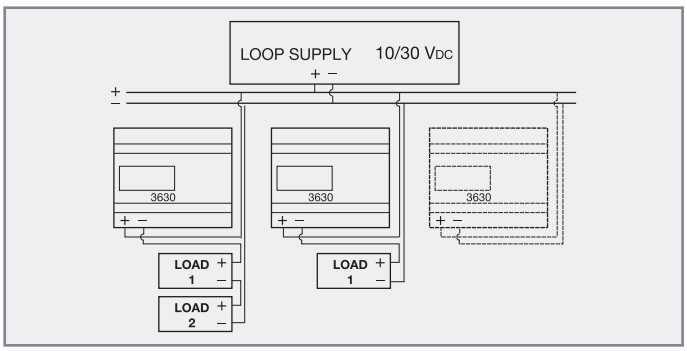
SZ 283 Potentiostatic sensor
CL 7901 Polarographic membraned free chlorine sensor
OZ 7901 Polarographic membraned dissolved ozone sensor

Technical Specifications

Display:	LCD
Inputs:	potentiostatic sensor 3 wires polarographic sensor 2 wires galvanic sensor 2 wires Pt100
Polarization:	-200 mV adjustable +/- 800 mV on request
Scales:	0/1.999 - 0/19.99 - 0/199.9 - 0/1999 selectable -10.0/120.0°C
Slope:	0.4 - 4 - 40 µA of the selected scale
Temperature compensation:	manual and automatic
Temperature coefficient:	0/4.0 %/°C (2%/°C for Chlorine e 2.5%/°C for Ozone)
Reference temperature:	20°C
Zero:	adjustable +/- 15 %
Sensitivity:	adjustable 86/112 % (coarse 20/200 %)
Output:	4/20 mA isolated
Operating temperature:	0/50°C
Operating humidity:	95% without condensate
Power:	10/30 Vdc
Isolation:	500 V from input to output
Weight:	200 g
Dimensions:	105 x 95 x 58 mm
Mounting:	DIN rail (6 modules)

The technical specifications could be changed without notice.





PH 3630 - MV 3630

pH Transmitter / O.R.P. Transmitter

Two wire 4/20 mA operation
Isolated current loop output
LCD display
Automatic or manual temperature compensation (pH)
Temperature display (pH)
10/30 Vdc power supply
Direct connection to PC's
Din Rail mounting
Detachable terminal block

General informations

pH and O.R.P. transmitters incorporate a large LCD display which is easily readable even from considerable distances.

Transmitters are powered by an external power supply from 10 to 30 Vdc. The same two wires which provide power to the transmitter also carry the 4/20 mA output pH signal.
Zero and Sensitivity (span) calibration adjustments are located on the front panel and are easily accessible.

The 4/20 mA output is isolated for input into recorders or other devices requiring a 4/20 mA signal.
The input/output isolation also allows input into PLC, DCS or Personal Computers accepting 4/20 mA signals.

A common power supply may be used to power other transmitters without interference from other measurement devices or sensors.

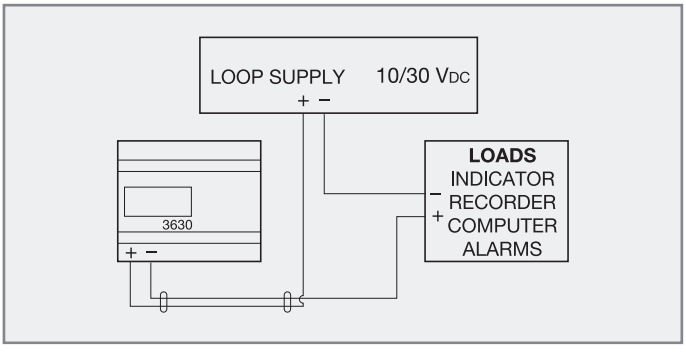
All plastic construction provides maximum resistance to corrosion. Detachable terminal block connectors and Din Rail mounting provide for easy field installation.

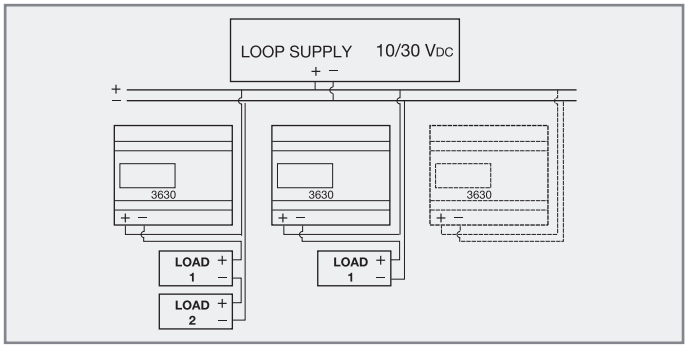
The PH 3630 transmitter will display temperature values of manual or automatic temperature compensation devices. Automatic Temperature Compensation is achieved with use of a 100 ohm platinum RTD.

Technical Specifications

Display: LCD
Inputs pH 3630: pH electrode Pt100 3 wire
Input MV 3630: O.R.P. electrode
Output: 4/20 mA dc isolated
Scales PH 3630: 0/14.00 pH -10.0/120.0 °C
Scale MV 3630: 0/1000 mV
Temperature Compensation: manual or automatic (PH 3630 only)
Zero: adjustable ± 15%
Sensitivity: adjustable from 86% to 112%
Input Current: < 2 pA
Input Resistance: > 1012 ohm
Operating Temperature: 0/50 °C
Operating Humidity: 0/95% R.H. non-condensing
Power supply: 10/30 Vdc
Isolation: 500 V input to output
Terminal block: detachable
Net Weight: 200 g
Dimensions: 105 x 95 x 58 mm (6 modules)
Mounting: DIN Rail (35 x 7.5 mm Rail)

The technical specifications could be changed without notice.





B&C electronics

3000 Series DIN RAIL

High accuracy
High reliability
Modular design
Low installation costs
Compact size

General informations

This series of analyzers and transmitters has been designed for the measurement and control of:

- pH
- O.R.P.
- Conductivity
- Electrodeless Conductivity
- Residual Chlorine
- Temperature

For OEM applications in industrial process, with continuous readings on LCD display.

These instruments provide accurate, low cost measuring and control for industrial process, water treatment and wastewater applications.

The Series is made of 3 different models, which allow Customers to select the most suitable solution according to their application and installation.

Models **3645** and **3655** feature one relay and a 4…20 mA output, not isolated

Models **3647** are same as the models above, but with 2 relays.

Models **3630**, thanks to a "current-loop" 4…20 mA output, are the ideal solution for those installations where controlling is done via PLC or other remote supervision and control devices, without losing the possibility to calibrate near the sensor.

Accessories for installation

BC 9408.1
Water-tight enclosure for 1 unit
Protection: IP 65 (NEMA 4X)
Dimensions: 215x210x100 mm

BC 9412.1
Water-tight enclosure for 2 units
Protection: IP 65 (NEMA 4X)
Dimensions: 298x260x140 mm

BC 9491.1
Wall mounting brackets for BC9408.1 and BC9412.1.

BC 95106
Frame for panel mounting of DIN Rail instrument (6 modules).