

# **LEAFLET**



## **EC3000**

EC TRANSMITTER, DIN-RAIL, 4-20 mA











### **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 blocks



#### **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 a 100 ohm platinum RTD, with temperature coefficient display.

The transmitter is powered by an external power supply from 10 to 30Vdc. 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 of the 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.

#### **Technical Specifications**

Display: LCD

Inputs: 2-electrodes E.C. cell 4-electrodes E.C. cell

RTD Pt100 2 or 3 wire **Output:** 4/20 mA isolated

Scales:  $0/199.9~\mu S$   $0/1,999~\mu S$  0/19.99~m S -10.0/120~C Temperature Compensation: manual or automatic

Temperature Compensaion Coefficient: Temperature Compensation Reference:

20 °C

**Zero:** adjustable ± 15%

**Sensitivity:** adjustable from 86% to 112% narrow range

adjustable from 0/160% wide range

Operating Temperature: 0/50 °C

Operating Humidity: 0/95% R.H. non-condensing

Power supply: 10/30 Vdc Isolation: 500V input to output Terminal blocks: detachable

Net Weight: 200 g

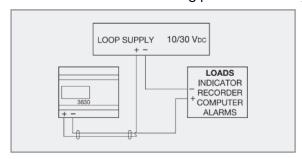
**Dimensions:** 105x95x58 mm (6 modules) **Mounting:** DIN Rail (35x7.5 mm Rail)

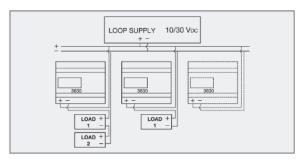
Technical specifications could be changed without

notice

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.





#### 3000 Series DIN RAIL

High accuracy
High reliability
Modular design
Low installation costs
Compact size

#### **General information**

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**

NIEUWKOOP



#### **BC 9408**

Water-tight enclosure for 1 unit **Protection:** IP65 (NEMA 4X)

**Dimensions:** 205 x 220 x 140 mm



#### **BC 9412**

Water-tight enclosure for 2 units

Protection: IP65 (NEMA 4X)

**Dimensions:** 275 x 220 x 140 mm

#### **BC 9491**

Wall mounting brackets for BC9408 and BC 9412

#### BC 95106

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



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