

Signet 8630 Chlorine Transmitter

Member of the ProcessPro® Family of Transmitters



Features

- Displays free chlorine 0 to 5 ppm (mg/l)
- Two programmable 4 to 20 mA outputs
- Two mechanical relays
- Temperature and pH Compensation
- Displays diagnostic information from sensor memory
- Simple setup and easy customization
- Backlit LCD display

Description

The Signet 3-8630-3P ProcessPro Chlorine Transmitter simultaneously displays free chlorine and pH levels on a bright LCD backlight display.

The 8630 transmitter has two 4 to 20 mA outputs that can be programmed to transmit chlorine, pH or temperature information to a data collection device.

Two dry-contact mechanical relays can be used to deliver an alarm signal or activate a chlorine dosing system.




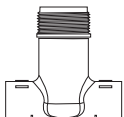
Programming is simple and easy with Signet's standard 4 button keypad. The menu option allows the use of an optional pH sensor to accurately calculate free chlorine level or select "Manual pH input" and enter the applications stable pH level to determine free chlorine levels.

Applications

Residual Chlorine Monitoring:

- Water Distribution
- Ground Water
- Surface Water
- HVAC Applications (cooling water)
- Boiler Feed Water
- Gray Water Dechlorination
- Food and Beverage
- RO Membrane Protection
- Swimming Pools
- Aquariums
- Water Parks

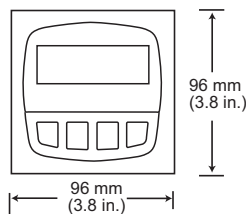
System Overview

<p>Panel Mount Signet Instrument (sold separately) 8630-3P</p> 
<p>Signet 2650 Chlorine Amperometric Electronics (sold separately)</p> 
<p>Signet 2630 Chlorine Electrode (sold separately)</p> 
<p>Signet 3610 Fitting (sold separately)</p> 

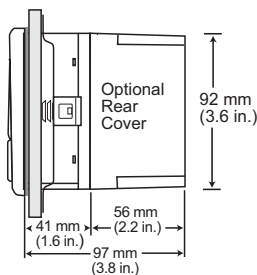


Dimensions

3-8630-3P



FRONT VIEW



SIDE VIEW

Specifications

General

Compatibility:

- 3-2630-2 Free Chlorine Electrode
- 3-2650-7 Amperometric Electronics
- 3-2724-00 Flat pH Electrode
- 3-2750-7 pH sensor electronics

Display:

- LCD: Backlit alphanumeric 2 x16 dot matrix

Materials

- Case: PBT
- Panel case gasket: Neoprene
- Window: Polyurethane-coated polycarbonate
- Keypad: Silicone rubber

Performance

System Operational Ranges:

- Free Cl: 0 to 5 ppm
- pH Input Range: 0 to 14 pH

Chlorine Compensation Range:

- pH: 5.0 to 9.0 pH (Free Chlorine)

Temperature Range:

0 °C to 45 °C (32 °F to 113 °F)

Max. Cable Distance:

Digital (S³L): 30 m (100 ft) max.
4 to 20 mA output: 305 m (1,000 ft) max.

Electrical

Power:

- 12 to 24 VDC ±10%, regulated,
250 mA max. current

Sensor Power: 5 VDC ±1% @ 25 °C, regulated

Input Specifications:

- One Digital (S³L) input from amperometric sensor
- One Digital (S³L) input from pH sensor

Electrical (continued)

Output Specifications:

Current Loop (2 loops provided)

- 4 to 20 mA, isolated, adjustable span, reversible with minimum and maximum endpoint adjustment.
- Update Rate: 300 ms
- Max Loop impedance:
 - 50 Ω max. @ 12 V
 - 325 Ω max. @ 18 V
 - 600 Ω max. @ 24 V

Relay Outputs:

- 2 mechanical SPDT contacts: High, Low, Off Pulse, or Window range
- Maximum voltage rating:
 - 5 A @ 30 VDC
 - 5 A @ 250 VAC, resistive load
- Hysteresis: User adjustable
- Time Delay: Programmable from 0 to 6400 s

Environmental

Operating Temperature:

-25 °C to 120 °C (-13 °F to 248 °F)

transmitter only

Storage Temperature:

-15 °C to 80 °C (5 °F to 176 °F)

Relative Humidity:

0 to 95%, non-condensing

Max. Altitude: 2000 m (6,562 ft)

Enclosure: NEMA 4X/IP65 front

Shipping Weight 0.5 kg 1.10 lb

Standards and Approvals

- CE
- UL, CUL
- Manufactured under ISO 9001 for Quality and ISO 14001 for Environmental Management
- RoHS compliant
- China RoHS

Ordering Information

Mfr. Part No.	Code	Description
3-8630-3P	159 001 673	Panel mount chlorine and pH transmitter

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
3-2630.391	159 001 674	Free Chlorine electrolyte, 30 ml
3-2630.392	159 001 675	Free Chlorine replacement membrane (1)
3-2630.396	159 001 676	Free Chlorine replacement kit - (2) electrolyte and (2) membranes
3-0700.390	198 864 403	pH Buffer Kit (1 each 4, 7, 10 pH buffer in powder form, makes 50 mL)
3822-7004	159 001 581	pH 4.01 buffer solution, 1 pint (473 ml)
3822-7007	159 001 582	pH 7.00 buffer solution, 1 pint (473 ml)
3822-7010	159 001 583	pH 10.00 buffer solution, 1 pint (473 ml)
3-2700.395	159 001 605	Calibration kit: included 3 polypropylene cups, box used as cup stand, 1 pint pH 4.01, 1 pint pH 7.00

3-8630.099 Rev C (10/10)

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