



### CAUTION!

- Remove electrical power from the device or transmitter before wiring input or output connections.
- Follow instructions carefully to avoid personal injury or damage to the electronics.

## 1. Description

The Signet 2750-7 pH Electronics amplify the output from the Signet 2724-00 pH Electrode and output a Digital (S<sup>3</sup>L) signal to the Signet 8630 Chlorine Transmitter.

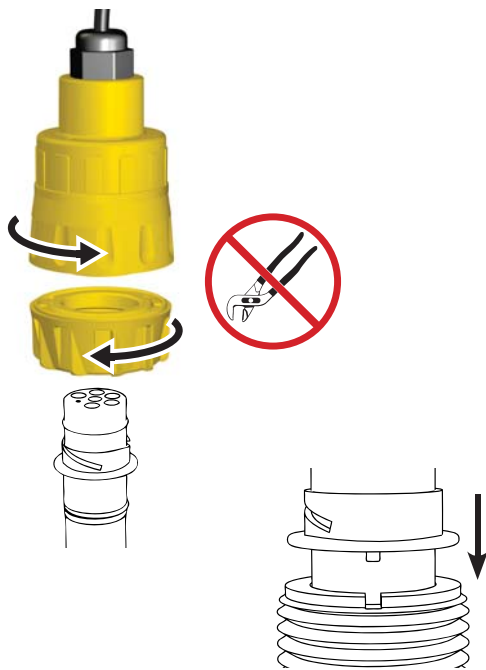
Features:

- Signet's patented DryLoc<sup>®</sup> connector provides quick assembly and a secure connection. Gold-plated contacts and an O-ring seal ensure a waterproof and reliable interconnect to the sensor.
- Separate drive electronics from sensor make for easy sensor replacement without running new cable.
- DryLoc connectivity allows easy sensor removal for calibration.

## 2. Installation

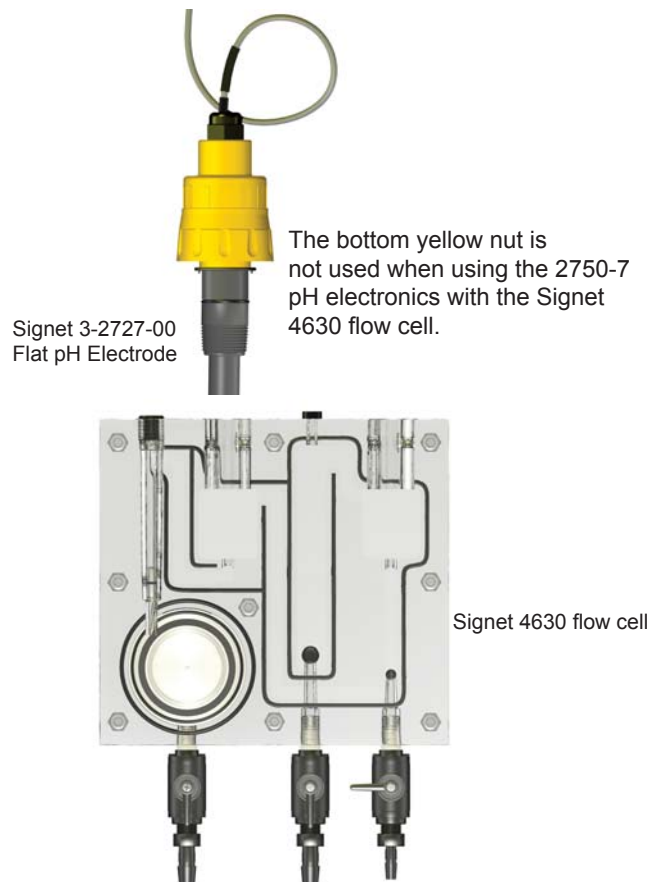
A thin film of non-petroleum based grease applied to the O-rings can ease installation.

### Flow Tee Installation



**Do Not Use Lubricant or Sealing Tape on Threads.  
Do Not Overtighten.**

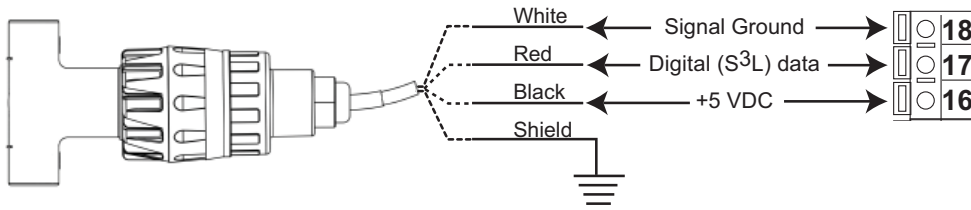
### 4630 Flow Cell Installation



### 3. Wiring

#### Wiring to the Signet 8630 Chlorine Transmitter

- Remove approximately 10 mm (0.4 in.) of insulation and tin each conductor before inserting into terminals.



- For calibration and configuration please refer to the 3-8630 Signet Chlorine Transmitter manual.

### 4. Specifications

#### General

**Compatible Electrode:**

Signet 2724-00 Flat pH electrode

**Compatible Instrument:**

Signet 3-8630-3P Chlorine Transmitter

**Mounting:**

DryLoc connection

**Materials:**

Valox® (PBT)

**Cable:**

4.6 m (15 ft) 3 conductor shielded, 22 AWG

**Shipping Weight:**

0.64 kg (1.41 lb)

#### Performance

**Electronics Accuracy:**

± 0.03 pH @ 25 °C

**Resolution:**

0.02 pH

**Response Time (includes electrode response):**

< 6 s for 95% of change

**Operational Range:**

0.00 to 14.00 pH

#### Electrical

**Input Specifications:**

Input Impedance: > 10<sup>11</sup> Ω

Temperature Drift: ± 0.002 pH per °C

Input Resolution: 0.02 pH, 0.3 °C

**Output Specifications:**

Digital (S<sup>3</sup>L): Serial ASCII, TTL level 9600 bps

Maximum Cable Length: 30 m (100 ft)

#### Environmental

**Storage Temperature:**

-20 °C to 85 °C (-4 °F to 185 °F)

**Operating Temperature (Electronics Only):**

0 °C to 85 °C (32 °F to 185 °F)

**Relative Humidity:**

0 to 95%, non-condensing

**Enclosure Requirements:**

NEMA 4X/IP65 with electrode connected

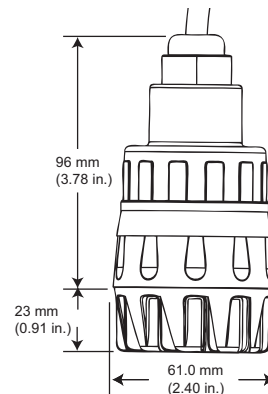
#### Standards and Approvals

CE

Manufactured under ISO 9001 and ISO 14001

 China RoHS (Go to [www.gfsignet.com](http://www.gfsignet.com) for details)

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Georg Fischer Signet LLC, 3401 Aerojet Avenue, El Monte, CA 91731-2882 U.S.A. • Tel. (626) 571-2770 • Fax (626) 573-2057  
For Worldwide Sales and Service, visit our website: [www.gfsignet.com](http://www.gfsignet.com) • Or call (in the U.S.): (800) 854-4090  
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