## **Contacting Conductivity/Resistivity Sensors**







Use the Digital Gateway to make any analog conductivity sensor compatible with the sc1000 Controller.

## Features and Benefits

#### **High Performance Design**

These enhanced performance sensors are manufactured to exacting tolerances using high quality, rugged materials for demanding applications including ultra-pure water, clean-in-place (CIP), and boiler/condensate monitoring. Each sensor is tested to determine its unique, absolute four-digit cell constant. Simply key in this constant (Hach's easy DRY-CAL™ method) when configuring the analyzer to ensure the highest possible measuring accuracy. Also, each sensor has a Pt 1000 RTD temperature element built into its tip for exceptionally fast response to changes in temperature with ±0.1°C accuracy.

## Resistivity and Conductivity Measurement Capability

These enhanced performance sensors measure from theoretically pure water (0.057  $\mu\text{S/cm}$  or 18.2  $M\Omega)$  up to 200,000  $\mu\text{S/cm}$ . Hach's sc Digital Controller accepts multiple digital sensor inputs, and can be user-set to measure conductivity, resistivity, TDS, salinity, or one of six calculated measurements.

#### **Versatile Mounting Styles**

Compression fitting sensors—Feature titanium electrodes and a compression fitting for universal installation with up to 4 inches (102 mm) insertion depth. The 1/2-inch or 3/4-inch male NPT compression fittings are offered in Kynar® (PVDF) or 316 stainless steel. A longer version of this sensor is available for use with a 316 stainless steel ball valve hardware assembly to insert/retract the sensor from the process without stopping the flow. The longer version can also be used for insertion through a compression fitting. Maximum insertion depth is 7 inches (178 mm).

Non-metallic general purpose sensors—Have graphite electrodes and 3/4-inch male NPT threaded Ryton<sup>®</sup> bodies. These sensors can be mounted into a standard 3/4-inch pipe tee, 1-1/2-inch union hardware, or fastened onto the end of a pipe.

#### High pressure and high temperature sensors-

Are designed for monitoring boiler water and condensate in return lines. They have 316 stainless steel electrodes and threaded bodies (3/4-inch male NPT). They can be fastened into a boiler wall using a 3/4-inch weldolet or mounted into a process line using a standard 3/4-inch stainless pipe tee.

Sanitary clean in place (CIP) style sensors—Have 316 stainless steel electrodes and an integral 1-1/2-inch or 2-inch flange. These sensors can be installed using standard sanitary mounting hardware.

# Full-Featured "Plug and Play" sc Digital Controllers

There are no complicated wiring or set up procedures with any sc controller. Just plug in any combination of digital sensors and it's ready to use—it's "plug and play."

One or multiple sensors—The sc controller family allows you to receive data from up to eight digital sensors in any combination using a single controller.

**Communications**—Multiple alarm/control schemes are available using the relays and PID control outputs. Available communications include analog 4-20 mA, digital MODBUS<sup>®</sup> (RS485 and RS232) or Profibus DP protocols. (Other digital protocols are available. Contact your representative for details.)

**Data logger**—A built-in data logger collects measurement data, calibration, verification points, and alarm history.

DW

PW

IW

## Specifications\*

#### Cell Constants and Measuring Ranges

Sensor Cell Constant	Inherent Meas Conductivity (µS/cm)	uring Range Resistivity (Mohm)
0.05	0–100	0.002–20
0.5	0–1000	0.001-20
1	0–2000	not applicable
5	0-10000	not applicable
10	0–200000	not applicable

#### Temperature Measurement Range

-20 to 200°C (-4 to 392°F)

#### Accuracy

±2% of reading above 200 µS/cm

#### Sensitivity

±0.5% of reading

#### Response Time

90% of reading within 30 seconds of step change

#### Repeatability

±0.5% of reading

#### **Operating Temperature**

-20 to 200°C (-4 to 392°F)

#### Flow Rate

0-3 m/s (0-10 ft./s), maximum, fully immersed

#### Temperature Compensator

Pt 1000 RTD

#### Transmission Distance

100 m (328 ft.), maximum

1000 m (3280 ft.), maximum when used with a termination box

#### Standard Probe Cable Length (integral)

Digital Probe: 7 m (23 ft.)

Analog Probe: 6 m (20 ft.)

#### Sensor Cable

Digital: PUR (polyethylene) 5-conductor, shielded, rated to 150°C (302°F)

(polypropylene, aluminum, or 316 stainless steel)

Analog: Integral (no junction box) 6 wire cable (4 conductors and two isolated shield wires)

Analog with Junction Box Head: (optional) 6-position terminal strip supplied in integrally-mounted junction box

	Model 3422-series Compression Fitting	Model 3433-series Non-metallic General Purpose	Model 3444-series Boiler/ Condensate	Model 3455-series Sanitary (CIP) Flange	
Temperature/ Pressure Limits (See Note 1)	When used with Kynar <sup>®</sup> (PVDF) compression fitting: 150°C at 1.7 bar (302°F at 25 psi).	150°C at 6.8 bar (302°F at 100 psi) or 20°C at 13.7 bar (68°F at 200 psi).	Sensor with integral cord grip: 200°C at 20.7 bar (392°F at 300 psi).	When used with manufacturer-supplied sanitary mount hardware assemblies:	
	When used with manufacturer-supplied 316 stainless steel compression fitting:	When used with hardware, a lower rated mounting hardware or piping material may	Sensor with integral polypropylene J-box Head: 92°C at 20.7 bar (198°F at 300 psi).	125°C at 10.3 bar (257°F at 150 psi) (See Note 2)	
	(302°F at 200 psi). and p	limit the temperature and pressure ratings	Sensor with integral aluminum or 316 SS		
	When used with 316 stainless steel ball valve hardware assemblies: 125°C at 10.3 bar (257°F at 150 psi).	listed above.	J-box head: 200°C at 20.7 bar (392°F at 300 psi).		
Wetted Materials	Titanium electrodes (316 stainless steel outer electrode for extended sensor body style used with ball valve assembly), PTFE Teflon <sup>®</sup> insulator, and treated Viton <sup>®</sup> O-ring seals	Graphite electrodes, Ryton <sup>®</sup> body, and Viton <sup>®</sup> O-ring seals	316 stainless steel and titanium electrodes, PEEK insulator, and fluoroelastomer O-ring seals	316 stainless steel electrodes, PTFE Teflon <sup>®</sup> insulator, and pufluoroelastomer O-ring seals	

\*Specifications subject to change without notice.

#### **NOTES**

- 1. For conductivity applications above 70°C (158°F), use the Digital Gateway (P/N 61207-00) with the appropriate sensor. Please contact Technical Support for further details.
- 2. Other brands of mounting hardware assemblies and sanitary clamps may reduce the listed rating.

## **Engineering Specifications**

#### Model 3422-series Compression Fitting Sensors

- 1. The sensor shall have these important enhanced performance design characteristics:
  - a) Manufactured to exacting tolerances using high quality, rugged materials.
  - b) Individually tested to determine its absolute four-digit cell constant, ensuring highest possible measuring accuracy.
  - c) Built to include a Pt 1000 RTD temperature element within its tip for exceptionally fast response to changes in temperature with  $\pm$  0.1°C accuracy.
- 2. The sensor shall measure from theoretical pure water (0.057  $\mu$ S/cm or 18.2 M $\Omega$ ) up to 200,000  $\mu$ S/cm.
- 3. The compression fitting style sensor shall have titanium electrodes (or 316 stainless steel outer electrode for extended sensor body style used with ball valve assembly), a nominal cell constant of 0.05, 0.5, 1, 5, or 10, and a 1/2 inch NPT or 3/4 inch NPT compression fitting made of Kynar<sup>®</sup> (PVDF) or 316 stainless steel. It shall directly mount into a pipe tee or vessel, and have an insertion depth of up to 4 inches (102 mm). Reversing the compression fitting shall enable the sensor to be fastened onto the end of a pipe for immersion applications.
- The sensor shall have integral digital electronics and an extension cable or an optional sensor module or Digital Gateway shall be available for connecting to a sc Digital Controller.
- 5. The sensor shall be Company Model 3422-series.

#### Model 3433-series Non-metallic General Purpose Sensors

- 1. The sensor shall have these important enhanced performance design characteristics:
  - a) Manufactured to exacting tolerances using high quality, rugged materials.
  - b) Individually tested to determine its absolute four-digit cell constant, ensuring highest possible measuring accuracy.
  - c) Built to include a Pt 1000 RTD temperature element within its tip for exceptionally fast response to changes in temperature with  $\pm 0.1^{\circ}$ C accuracy.
- 2. The general purpose style sensor shall have graphite electrodes, a nominal cell constant of 0.5 or 10, and a

- 3/4-inch NPT threaded Ryton body. It shall mount into a standard 3/4-inch pipe tee, optional 1/4-turn twist lock adapter, 1-1/2 inch union hardware, or fasten onto the end of a pipe.
- The sensor shall have an integral 6 m (20 ft.) cable, or an integrally-mounted junction box (polypropylene, aluminum, or 316 stainless steel) that requires optional interconnect cable.
- An optional sensor module or Digital Gateway shall be available for connecting to a sc Digital Controller.
- 5. The sensor shall be Company Model 3433-series.

#### Model 3444-series Boiler/Condensate Sensors

- The sensor shall have these important enhanced performance design characteristics:
  - a) Manufactured to exacting tolerances using high quality, rugged materials.
  - b) Individually tested to determine its absolute four-digit cell constant, ensuring highest possible measuring accuracy.
  - c) Built to include a Pt 1000 RTD temperature element within its tip for exceptionally fast response to changes in temperature with  $\pm 0.1^{\circ}\text{C}$  accuracy.
- The boiler/condensate style sensor shall have 316 stainless steel and titanium electrodes, a nominal cell constant of 0.5 or 5, and a 3/4-inch NPT threaded 316 stainless steel body. It shall fasten into a boiler wall using a 3/4-inch weldolet, or mount into a process line using a standard 3/4-inch stainless pipe tee.
- The sensor shall have an integral 6 m (20 ft.) cable, or an integrally-mounted junction box (polypropylene, aluminum, or 316 stainless steel) that requires optional interconnect cable.
- 4. An optional sensor module or Digital Gateway shall be available for connecting to a sc Digital Controller.
- 5. The sensor shall be Company Model 3444-series.

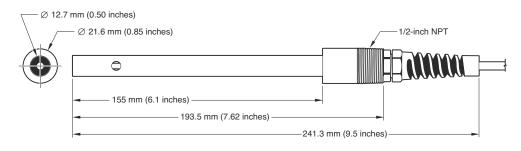
#### Model 3455-series Sanitary (CIP) Flange Sensors

- 1. The sensor shall have these important enhanced performance design characteristics:
  - a) Manufactured to exacting tolerances using high quality, rugged materials.
  - b) Individually tested to determine its absolute four-digit cell constant, ensuring highest possible measuring accuracy.
  - c) Built to include a Pt 1000 RTD temperature element within its tip for exceptionally fast response to changes in temperature with  $\pm 0.1^{\circ}\text{C}$  accuracy.
- 2. The sanitary (CIP) flange style sensor shall have 316 stainless steel electrodes, a nominal cell constant of 0.05, 1, or 10, and a 1-1/2-inch or 2-inch diameter flange. It shall mount using standard sanitary mounting hardware.
- The sensor shall have an integral 6 m (20 ft.) cable, or an integrally-mounted junction box (polypropylene, aluminum, or 316 stainless steel) that requires optional interconnect cable.
- 4. An optional sensor module or Digital Gateway shall be available for connecting to a sc Digital Controller.
- 5. The sensor shall be Company Model 3455-series.

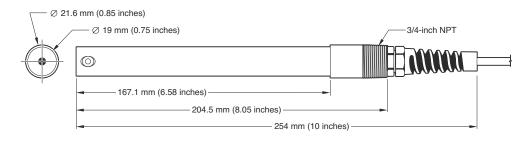
## **Dimensions**

## **Model 3422-series Compression Fitting Sensor**

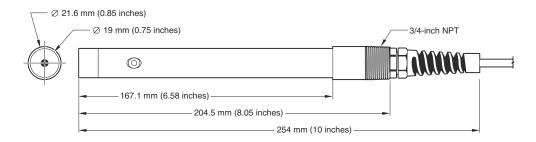
#### Compression-Style Sensor, 0.5-in. Diameter



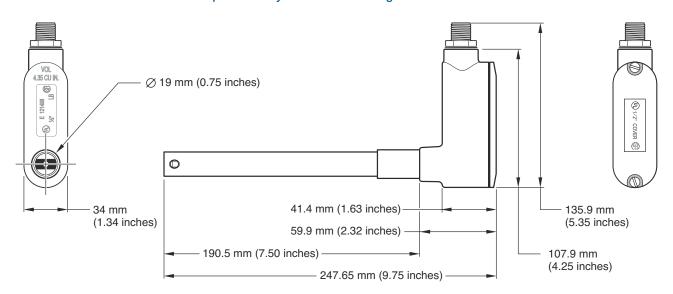
#### Compression-Style Sensor, 0.75-in. Diameter



## Compression-Style Sensor with Teflon® Tip

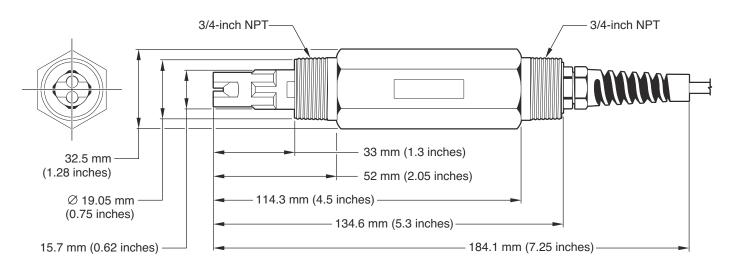


#### Compression-Style Sensor with Integral Junction Box

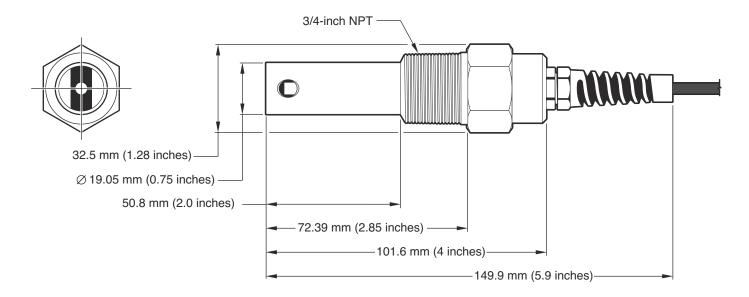


## **Dimensions** continued

## Model 3433-series Non-metallic General Purpose Sensor

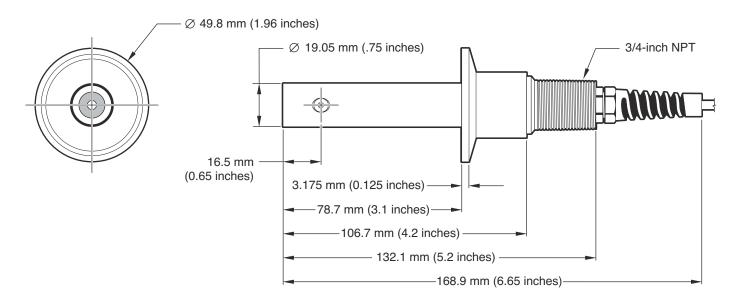


## Model 3444-series Boiler/Condensate Sensor

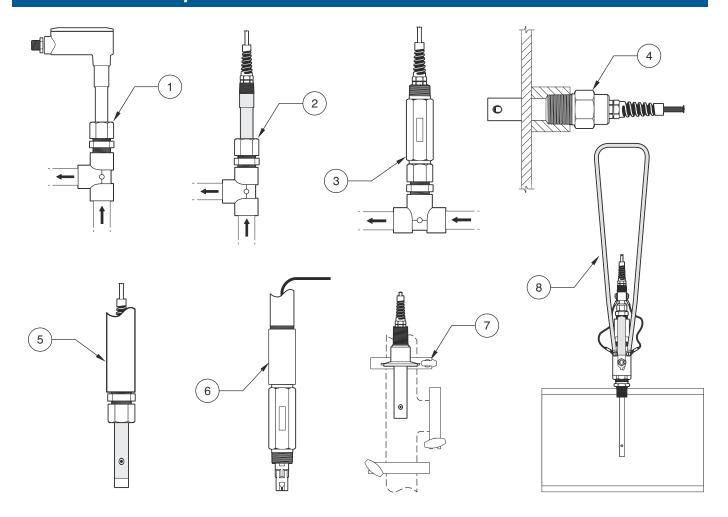


## **Dimensions** continued

## Model 3455-series Sanitary (CIP) Flange Sensor



# Installation Examples



- 1. Insertion mounting
- 2. Insertion mounting
- 3. Non-metallic sensor, insertion mounting
- 4. Boiler wall insertion mounting
- 5. End of pipe mounting
- 6. Non-metallic sensor, end of pipe mounting
- 7. Sanitary (CIP) flange mounting
- 8. Ball valve insertion for compression-style sensor with extended sensor body

## **Ordering Information**

#### **Compression Fitting Sensors**

Designed for ultrapure water and pure water applications, these small, enhanced performance contacting conductivity sensors provide the required absolute cell (K) constant accuracy, and ultrafast-acting temperature compensation. Materials of construction extend sensor operating life with no degradation in measurement reliability.

#### 3422 sc Digital Compression Fitting Sensors

All digital compression fitting sensors have titanium electrodes and include built-in digital electronics and integral 7 m (23 ft.) cable terminated with connector for the sc Digital Controllers. For insertion applications only. (For immersion applications, order 3422 Analog Compression Fitting Sensors.) For other cell constants and configurations, please contact your Sales Representative.

Product Number	Cell Constant	Compression Fitting Style
D3422A1	0.05	1/2-inch NPT Kynar <sup>®</sup> (PVDF)
D3422A2	0.05	1/2-inch NPT 316 stainless steel
D3422B3	0.5	3/4-inch NPT Kynar® (PVDF)
D3422C3	1.0	3/4-inch NPT Kynar <sup>®</sup> (PVDF)
D3422D3	5.0	3/4-inch NPT Kynar® (PVDF)
D3422E3	10	3/4-inch NPT Kynar® (PVDF)

#### **Digital Gateway**

6120700 Use the Digital Gateway to connect analog 3400-series conductivity sensors to the sc1000 Digital Controller. 3422

#### **Analog Compression Fitting Sensors**

All analog compression fitting sensors have titanium electrodes and include an integral 6 m (20 ft.) cable terminated with stripped and tinned wires. For other cell constants and configurations, including options for integral junction boxes, please contact your Sales Representative.

Product Number	Cell Constant	Compression Fitting Style
3422A1A	0.05	1/2-inch NPT Kynar <sup>®</sup> (PVDF)
3422A2A	0.05	1/2-inch NPT 316 stainless steel
3422B3A	0.5	3/4-inch NPT Kynar <sup>®</sup> (PVDF)
3422C3A	1.0	3/4-inch NPT Kynar® (PVDF)
3422D3A	5.0	3/4-inch NPT Kynar <sup>®</sup> (PVDF)
3422E3A	10	3/4-inch NPT Kynar <sup>®</sup> (PVDF)

#### Accessories for Digital and Analog 3422-series Sensors

#### **Compression Fittings**

**4H1285** 1/2-inch 316 Stainless Steel Fitting **4H1135** 3/4-inch 316 Stainless Steel Fitting **1000F1236-111** 1/2-inch PVDF (Kynar<sup>®</sup>) Fitting 3/4-inch PVDF (Kynar<sup>®</sup>) Fitting

#### Low-volume Flow Chambers

For use only with a 0.05 cell constant sensor. These tees limit sample volume to approximately 20 mL for high-purity water applications.

**1000G3316-101** Kynar<sup>®</sup> (PVDF) 1/2-inch pipe tee **1000A3316-102** 316 SS 1/2-inch pipe tee

#### Mounting Hardware for Digital and Analog 3422-series Sensors

#### 316 Stainless Steel Ball Valve Mounting Hardware

Ball valve mounting hardware assemblies consist of a 1-inch stainless steel ball valve, internal Viton® seals, 1-inch NPT stainless steel close nipple, and steel guard with safety cables.

MH113M2C For 0.05 cell constant sensor (1/2-inch diameter)

MH114M3C For all other sensors (3/4-inch diameter)

## **Ordering Information** continued

#### Non-metallic General Purpose Sensors

The Model 3433-series graphite electrode sensors are low-cost and offer advanced features. They are specifically designed for general purpose measuring applications that require a non-metallic sensor. Ryton® body is compatible with most acidic, basic, and salts measurements.

#### 3433 sc Digital Non-Metallic, General Purpose Sensors

All digital general purpose sensors come complete with a non-metallic sensor with graphite electrode, 3/4-inch male NPT threaded Ryton<sup>®</sup> body with integral 6 m (20 ft.) cable, digital gateway, and 1 m (3.3 ft.) digital extension cable. When ordering a replacement sensor, please select the appropriate sensor from the "Replacement Sensor" column.

Product Number	Cell Constant	Replacement Sensor
D3433B8	0.5	3433B8A
D3433E8	10	3433E8A

#### **Digital Gateway**

6120700 Use the Digital Gateway to connect analog 3400-series conductivity sensors to the sc1000 Digital Controller. 3433

#### Analog Non-Metallic, General Purpose Sensors

All analog general purpose sensors come complete with a non-metallic sensor with graphite electrode and 3/4-inch male NPT threaded Ryton<sup>®</sup> body with integral 6 m (20 ft.) cable terminated with stripped and tinned wires. For other configurations, including options for integral junction boxes, please contact your Sales Representative.

Product Number	Cell Constant
3433B8A	0.5
3433E8A	10

#### Mounting Hardware for Digital and Analog Model 3433-series Sensors

#### Union Mounting Hardware

MH576N3MZ All-PVC assemblies include: 1-1/2-inch pipe tee, 1-1/2-inch close nipple, 1-1/2-inch -modified union

#### **Boiler/Condensate Sensors**

The Model 3444-series enhanced performance contacting conductivity sensors are specifically designed for high temperature and high pressure applications. They are especially convenient for direct boiler wall installations.

## 3444 sc Digital Boiler/Condensate Style Sensors

All digital boiler/condensate style sensors have 316 stainless steel electrode electrodes, 3/4-inch male NPT threaded 316 stainless steel body with integral 6 m (20 ft.) cable, digital gateway, and 1 m (3.3 ft.) digital extension cable. When ordering a replacement sensor please select the appropriate sensor from the "Replacement Sensor" column.

Product Number	Cell Constant	Replacement Sensor
D3444B8	0.5	3444B8A
D3444D8	5.0	3444D8A

#### **Digital Gateway**

6120700 Use the Digital Gateway to connect analog 3400-series conductivity sensors to the sc1000 Digital Controller. 3444

### Analog Boiler/Condensate Style Sensors

All analog boiler/condensate style sensors have 316 stainless steel electrodes and 3/4-inch male NPT threaded 316 stainless steel body with integral 6 m (20 ft.) cable terminated with stripped and tinned wires. For other configurations, including options for integral junction boxes, please contact your Sales Representative.

Product Number	Cell Constant
3444B8A	0.5
3444D8A	5.0

## **Ordering Information** continued

#### Sanitary (CIP) Flange Sensors

These CIP-ready, enhanced performance contacting conductivity sensors are designed for direct mounting into processes using CIP type fittings. Applications may include food, pharmaceutical, high purity water, reverse osmosis, waste treatment, and other processes.

#### 3455 sc Digital Sanitary (CIP) Flange Style Sensors

All digital sanitary (CIP) flange style sensors have 316 stainless steel electrodes, integral 6 m (20 ft.) cable, digital gateway, and 1 m (3.3 ft.) digital extension cable. When ordering a replacement sensor please select the appropriate sensor from the "Replacement Sensor" column.

<u>Product Number</u>	<u>Cell Constant</u>	<u>Installation Style</u>	<u>Replacement Sensor</u>
D3455A6	0.05	Sanitary (CIP) 1-1/2-inch flange	3455A6A
D3455C7	1.0	Sanitary (CIP) 2-inch flange	3455C7A
D3455E7	10	Sanitary (CIP) 2-inch flange	3455E7A

#### **Digital Gateway**

6120700 Use the Digital Gateway to connect analog 3400-series conductivity sensors to the sc1000 Digital Controller. 3455

#### **Analog Sanitary (CIP) Flange Style Sensors**

All analog sanitary (CIP) flange style sensors have 316 stainless steel electrodes with integral 6 m (20 ft.) cable terminated with stripped and tinned wires. For other configurations, including different flange sizes and integral junction box options, please contact your Sales Representative.

Product Number	Cell Constant	<u>Installation Style</u>
3455A6A	0.05	Sanitary (CIP) 1-1/2 inch flange
3455C7A	1.0	Sanitary (CIP) 2 inch flange
3455E7A	10	Sanitary (CIP) 2 inch flange

#### Mounting Hardware for Digital and Analog Model 3455-series Sensors

Sanitary	1-1/2-inch Mounting Hardware	Sanitary	2-inch Mounting Hardware
	1-1/2-inch sanitary tee 1-1/2-inch heavy duty sanitary clamp		2-inch sanitary tee 2-inch heavy duty sanitary clamp
Sanitary	1-1/2-inch Gasket	Sanitary	2-inch Gasket
9H1381 9H1383	EDPM (standard) Viton® (optional)		EDPM (standard) Viton <sup>®</sup> (optional)

## **Ordering Information** continued

#### Accessories for all 3400-series Contacting Conductivity Sensors

#### **Cables**

Digital cables are used only with digital sensors or gateways when connecting to the sc Digital Controllers.

6122400 Digital Extension Cable, 1 m (3.3 ft.)
 5796000 Digital Extension Cable, 7.7 m (25 ft.)
 5796100 Digital Extension Cable, 15 m (50 ft.)
 5796200 Digital Extension Cable, 31 m (100 ft.)

Analog cables are used only with analog sensors, junction box, and controller.

1W1100 Analog Interconnect Cable, order per foot

#### Digital Termination Box

Used with digital extension cables when the desired cable length between the digital sensor/digital gateway and the sc Digital Controller is between 100 m (328 ft.) and 1000 m (3280 ft.).

5867000 Digital Termination Box

#### Analog Junction Box

Used with analog interconnect cable when the desired cable length between analog sensor and analog controller is greater than the standard length of sensor cable. Each junction box includes terminal strip and gasket.

60A2053 Junction Box, Surface-mount, aluminum (includes mounting hardware)

Junction Box, Pipe-mount, PVC (for 1/2-inch diameter pipe, includes mounting hardware)

Junction Box, Pipe-mount, PVC (for 1-inch diameter pipe, includes mounting hardware)

**76A4010-001** Junction Box, NEMA 4X (no mounting hardware included)

#### **Conductivity Reference Solutions**

Please specify the desired conductivity value when placing your order.

Product Number	<u>Description</u>	<u>Volume</u>
25M3A2000-119	100-1000 μS/cm	1 liter
25M3A2050-119	1000-2000 μS/cm	1 liter
25M3A2100-119	2000-150,000 μS/cm	1 liter
25M3A2200-119	200,000-300,000 μS/cm	1 liter

## To complete your conductivity measurement system, choose from these controllers...

#### Model sc200 Controller

(see Lit. #2665)

The sc200 controller platform can be configured to operate either 2 Digital Sensor Inputs, or 1 or 2 Analog Sensor Inputs, or a combination of Digital and Analog Sensor Inputs. Customers may choose their communication options from a variety of offerings ranging from MODBUS RTU to Profibus DPV1.



#### sc200 for Digital Sensors

LXV404.99.00552 sc200 controller, 2 channel, digital LXV404.99.00502 sc200 controller, 1 channel, digital LXV404.99.00542 sc200 controller, 2 channel, digital & mA input LXV404.99.00512 sc200 controller, 2 channel, digital & pH/DO LXV404.99.00522 sc200 controller, 2 channel, digital & Conductivity LXV404.99.00532 sc200 controller, 2 channel, digital & Flow

#### sc200 for Analog Sensors

**LXV404.99.00102** sc200 controller, 1 channel, pH/DO LXV404.99.00112 sc200 controller, 2 channel, pH/DO LXV404.99.00202 sc200 controller, 1 channel, Conductivity LXV404.99.00222 sc200 controller, 2 channel, Conductivity LXV404.99.00212 sc200 controller, 2 channel, pH/DO & Conductivity LXV404.99.00302 sc200 controller, 1 channel, Flow LXV404.99.00332 sc200 controller, 2 channel, Flow

LXV404.99.00312 sc200 controller, 2 channel, Flow & pH/DO LXV404.99.00322 sc200 controller, 2 channel, Flow & Conductivity Note: Other sensor combinations are available. Please contact Technical Support or your representative.

Note: Communication options (MODBUS and Profibus DPV1) are available.

#### Model sc1000 Controller

(see Lit. #2403)

Each sc1000 Probe Module provides power to the system and can accept up to 8 digital sensors/expansion boards. Probe Modules can be networked together to accommodate up to 32 digital sensors/expansion boards attached to the same network.

**LXV402.99.00002** sc1000 Display Module

LXV400.99.1R572 sc1000 Probe Module, 4 sensors, 4 mA Out, 4 mA In, 4 Relays,

110-230V

LXV400.99.1B572 sc1000 Probe Module, 4 sensors,

4 mA Out, 4 mA In, 4 Relays, RS-485

(MODBUS), 110-230V

**LXV400.99.1F572** sc1000 Probe Module, 4 sensors,

4 mA Out, 4 mA In, 4 Relays, PROFIBUS DP, 110-230V

LXV400.99.1R582 sc1000 Probe Module, 6 sensors,

4 mA Out, 4 mA In, 4 Relays, 110-230V

At , it's about learning from our customers and providing the right answers. It's more than ensuring the quality of water-it's about ensuring the quality of life. When it comes to the things that touch our lives...

Keep it pure. Make it simple. Be right.