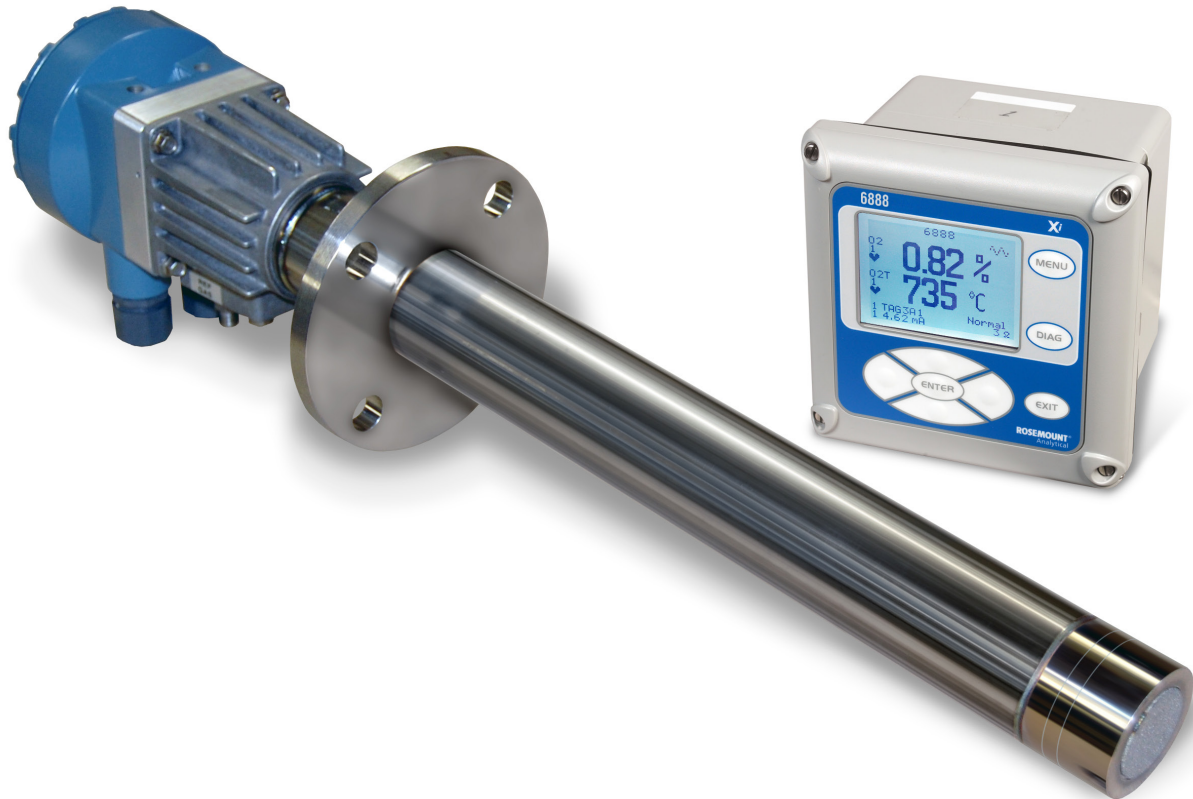


# Rosemount™ 6888 In-Situ Oxygen Transmitter



## The new standard for combustion flue gas analysis

The Rosemount™ 6888 combustion flue gas transmitter provides a continuous, accurate measurement of the oxygen remaining in flue gases coming from any combustion process. Accurate measurements of furnace exhaust excess oxygen are critical for combustion optimization, resulting in reduced energy costs, increased safety, and lower emissions. Reduction of overall downtime and maintenance can be achieved with the Rosemount 6888's robust oxygen sensor and autocalibration capabilities.

Overview



Proven performance and reliability

- Robust zirconia oxygen sensing cell with catalytic platinized beads increases cell lifetime in presence of sulfur and other poisoning agents.
- Outstanding accuracy:  $\pm 0.75\%$  of reading or  $\pm 0.05\% \text{ O}_2$ .
- Rugged explosion-proof design for hazardous area approvals satisfies ATEX/IECEX Ex d and CSA Class 1, Division 1/Zone 1.

Advanced sensor diagnostics

- Calibration recommended diagnostics.
- Plugged diffuser/filter diagnostics.
- Low oxygen diagnostics and  $\text{O}_2$  readings during reducing conditions.



Adaptability

- Completely field repairable and adaptable to nearly any existing  $\text{O}_2$  probe installation (Westinghouse World Class, Rosemount Oxymitter, and most competitive  $\text{O}_2$  probe installations).
- Variable probe insertion options.



Contents

|                                                                                                         |    |
|---------------------------------------------------------------------------------------------------------|----|
| Rosemount™ 6888A In-Situ Oxygen Transmitter for general purpose locations.....                          | 3  |
| Rosemount™ 6888C In-Situ Oxygen Transmitter for hazardous locations .....                               | 6  |
| Rosemount™ SPS 4001B and Rosemount IMPS 4000 Autocalibration Devices for general purpose locations..... | 10 |
| How to order: Complete Oxygen Analysis system .....                                                     | 12 |
| Specifications .....                                                                                    | 13 |
| Rosemount™ 6888 product certifications.....                                                             | 16 |
| Dimensions .....                                                                                        | 19 |
| Accessories.....                                                                                        | 27 |

## Rosemount™ 6888A In-Situ Oxygen Transmitter for general purpose locations



The Rosemount™ 6888A combustion flue gas transmitter is a solution for optimizing any industrial or large commercial boiler, fired heater, or kiln. The Rosemount 6888A, as part of an oxygen trim system, improves plant energy efficiency and lowers energy costs. It not only meets application requirements but also is simple to install, commission, and operate. The sensor, diffusers, and accessories for the Rosemount 6888A were developed to provide the greatest performance and longevity even in the harshest of process conditions.

- World-class performance and outstanding accuracy:  $\pm 0.75\%$  of reading or  $\pm 0.05\% \text{ O}_2$
- Digital communications: HART® 5 and FOUNDATION™ Fieldbus
- Resilient sensing cells provide protection to sulfur and other poisoning agents present in flue gas

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See page 13 for more information on material selection.

**Table 1. Rosemount 6888A In-Situ Oxygen Transmitter for General Purpose Locations**

| Model                        | Sensor type                                                                               |
|------------------------------|-------------------------------------------------------------------------------------------|
| 6888A                        | In-Situ Oxygen Transmitter                                                                |
| Measurement                  |                                                                                           |
| 1OXY <sup>1</sup>            | Oxygen - standard sensing cell                                                            |
| 2OXY <sup>2</sup>            | Oxygen - acid resistant sensing cell                                                      |
| Probe length and type/shield |                                                                                           |
| 1                            | 18 in. (457 mm) standard probe tube                                                       |
| 2 <sup>3</sup>               | 18 in. (457 mm) probe with abrasive shield accessory package (mounting hardware included) |
| 3                            | 18 in. (457 mm) abrasion-resistant probe tube                                             |
| 4                            | 3 ft (0.91 m) standard probe tube                                                         |
| 5 <sup>3</sup>               | 3 ft (0.91 m) probe with abrasive shield accessory package (mounting hardware included)   |
| 6                            | 3 ft (0.91 m) abrasion-resistant probe tube                                               |
| 7                            | 6 ft (1.83 m) standard tube                                                               |
| 8 <sup>3</sup>               | 6 ft (1.83 m) probe with abrasive shield accessory package (mounting hardware included)   |
| 9                            | 6 ft (1.83 m) abrasion-resistant probe tube                                               |
| A <sup>3</sup>               | 9 ft (2.74 m) probe with abrasion-resistant probe body                                    |
| AA                           | 9 ft (2.74 m) probe with abrasive shield accessory package (mounting hardware included)   |
| B <sup>3</sup>               | 12 ft (3.66 m) probe with abrasion-resistant probe body                                   |
| BA                           | 12 ft (3.66 m) probe with abrasive shield accessory package (mounting hardware included)  |

| Diffuser                                                             |                                                                                                                                                            |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                    | Snubber diffuser for service to 400 °C (750 °F)                                                                                                            |
| 1A                                                                   | Snubber diffuser for service to 400 °C (750 °F) with dust seal for use with abrasive shield                                                                |
| 1F                                                                   | Snubber diffuser for service to 400 °C (750 °F) with flashback arrestor                                                                                    |
| 2                                                                    | Ceramic diffuser for service to 825 °C (1517 °F)                                                                                                           |
| 2A                                                                   | Ceramic diffuser for service to 825 °C (1517 °F) with dust seal for use with abrasive shield                                                               |
| 2F                                                                   | Ceramic diffuser for service to 825 °C (1517 °F) with flashback arrestor                                                                                   |
| 3                                                                    | Hastelloy diffuser for service to 705 °C (1300 °F)                                                                                                         |
| 3A                                                                   | Hastelloy diffuser for service to 705 °C (1300 °F) with dust seal for use with abrasive shield                                                             |
| Housing & electronics                                                |                                                                                                                                                            |
| 1HT                                                                  | Standard housing, digital probe, HART protocol                                                                                                             |
| 2HT                                                                  | Integral autocalibration housing, digital probe, HART protocol                                                                                             |
| 4FF                                                                  | Integral autocalibration housing, digital probe, FOUNDATION Fieldbus protocol                                                                              |
| 5DR                                                                  | Standard housing, direct replacement probe, traditional architecture                                                                                       |
| 6DRY                                                                 | Standard housing, direct replacement probe, with cold junction for YEW electronics                                                                         |
| Mounting plate                                                       |                                                                                                                                                            |
| 00                                                                   | No additional mounting hardware                                                                                                                            |
| 04                                                                   | New installation - square weld plate, ANSI: 6 x 6 in. (152.4 x 152.4 mm), 2.5 in. (63.5 mm) clearance hole, 4.75 in. (120.65 mm) bolt circle, 5/8-11 studs |
| 05                                                                   | New installation - square weld plate, DIN 6 x 6 in. (152.4 x 152.4 mm), 2.5 in. (63.5 mm) clearance hole, 4.75 in. (120.65 mm) bolt circle, 5/8-11 studs   |
| 06                                                                   | New installation - variable insertion mount, abrasion-resistant probe only                                                                                 |
| 07                                                                   | New installation - variable insertion mount, mounted to existing OXT/WC abrasive shield mount; abrasion resistant probe only                               |
| 08                                                                   | Adapter plate for existing ANSI 3 in. (76.2 mm) 150# flange                                                                                                |
| 09                                                                   | Adapter plate for existing ANSI 4 in. (101.6 mm) 150# flange                                                                                               |
| 10                                                                   | Adapter plate for existing ANSI 6 in. (152.4 mm) 150# flange                                                                                               |
| 11                                                                   | Adapter plate for existing ANSI 3 in. (76.2 mm) 300# flange                                                                                                |
| 12                                                                   | Adapter plate for existing ANSI 4 in. (101.6 mm) 300# flange                                                                                               |
| 99                                                                   | Special adapter -provide existing flange dimensions, including thru-hole diameter                                                                          |
| Manual calibration accessories                                       |                                                                                                                                                            |
| 00                                                                   | None                                                                                                                                                       |
| 01                                                                   | Calibration and reference gas flowmeters and reference air filter regulator, provided loose                                                                |
| 02                                                                   | Calibration and reference gas flowmeters and reference air filter regulator, mounted in a panel                                                            |
| Enable: Stoichiometer indicator for reducing conditions <sup>4</sup> |                                                                                                                                                            |
| 0                                                                    | No                                                                                                                                                         |
| 1                                                                    | Yes                                                                                                                                                        |
| Enable: Programmable reference function <sup>4</sup>                 |                                                                                                                                                            |
| 0                                                                    | No                                                                                                                                                         |
| 1                                                                    | Yes                                                                                                                                                        |
| Enable: Extended temperature function <sup>4</sup>                   |                                                                                                                                                            |
| 0                                                                    | No                                                                                                                                                         |
| 1                                                                    | Yes                                                                                                                                                        |

| Enable: Diffuser warning <sup>4</sup> |     |
|---------------------------------------|-----|
| 0                                     | No  |
| 1                                     | Yes |

1. Standard sensing cell includes catalytic protection beads which protect the sensor from sulfur and other poisoning agents.
2. Acid-resistant sensing cell includes additional catalytic protection beads compared to standard sensing to protect the sensor from sulfur and other poisoning agents.
3. Abrasive shield tube ordered separately.
4. FOUNDATION Fieldbus versions only (for HART versions, order this feature with Rosemount Xi Electronics).

# Rosemount™ 6888C In-Situ Oxygen Transmitter for hazardous locations



The Rosemount™ 6888C combustion flue gas transmitter is a solution for optimizing boilers or fired heaters located in areas with hazardous requirements. The Rosemount 6888C's calibration equipment is simplified in hazardous areas with the approved integrated automatic calibration housing option. Maintenance costs are reduced with the redesigned modular diffuser and process flame arrestor assembly.

- Rugged explosion-proof design satisfies ATEX/IECEX Ex d and CSA Class 1, Division/Zone 1 approval requirements.
- Digital communications: HART® 5 standard, FOUNDATION™ Fieldbus, and AMS/PlantWeb®
- Resilient sensing cells provide protection to sulfur and other poisoning agents present in flue gas.

## Additional information

Specifications can be found on page 13. Drawings are provided on page 19.

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See page 13 for more information on material selection.

**Table 2. Rosemount 6888C In-Situ Oxygen Transmitter for Hazardous Locations**

| Model                                   | Product description                                                                                                                                     |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6888C                                   | In-Situ Oxygen Transmitter for hazardous locations                                                                                                      |
| <b>Measurement<sup>1</sup></b>          |                                                                                                                                                         |
| 1OXY                                    | Oxygen - standard sensing cell                                                                                                                          |
| 2OXY                                    | Oxygen - acid resistant sensing cell                                                                                                                    |
| <b>Probe length and mounting flange</b> |                                                                                                                                                         |
| 1A                                      | 18 in. (457 mm) probe with ANSI flange: 7.5 in (190.5 mm). O.D., 6.00 in. (152.4 mm) bolt hole pattern diameter, 0.75 in. (19.05 mm) bolt hole diameter |
| 1D                                      | 18 in. (457 mm) probe with DIN flange: 8.25 in. (209.55 mm) O.D., 6.69 in. (170 mm) bolt hole pattern diameter, .71 in. (18 mm) bolt hole diameter      |
| 2A                                      | 3 ft (0.91 m) probe with ANSI flange: 7.5 in (190.5 mm). O.D., 6.00 in. (152.4 mm) bolt hole pattern diameter, 0.75 in. (19.05 mm) bolt hole diameter   |
| 2D                                      | 3 ft (0.91 m) probe with DIN flange: 8.25 in. (209.55 mm) O.D., 6.69 in. (170 mm) bolt hole pattern diameter, .71 in. (18 mm) bolt hole diameter        |
| 3A                                      | 6 ft (1.83 m) probe with ANSI flange: 7.5 in (190.5 mm). O.D., 6.00 in. (152.4 mm) bolt hole pattern diameter, 0.75 in. (19.05 mm) bolt hole diameter   |
| 3D                                      | 6 ft (1.83 m) probe with DIN flange: 8.25 in. (209.55 mm) O.D., 6.69 in. (170 mm) bolt hole pattern diameter, .71 in. (18 mm) bolt hole diameter        |

| Diffuser                                                             |                                                                                                                                                      |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                                                                    | Snubber diffuser for service to 400 °C (750 °F)                                                                                                      |
| 2                                                                    | Ceramic diffuser for service to 825 °C (1517 °F)                                                                                                     |
| 3                                                                    | Hastelloy diffuser for service to 705 °C (1300 °F)                                                                                                   |
| Housing and electronics                                              |                                                                                                                                                      |
| 1HT                                                                  | Standard housing, digital probe, HART protocol                                                                                                       |
| 2HT                                                                  | Integral autocalibration housing, digital probe, HART protocol                                                                                       |
| 4FF                                                                  | Integral autocalibration housing, digital probe, FOUNDATION Fieldbus protocol                                                                        |
| 5DR                                                                  | Standard housing, direct replacement probe, traditional architecture                                                                                 |
| 6DRY                                                                 | Standard housing, direct replacement probe, with cold junction for YEW electronics                                                                   |
| Certifications                                                       |                                                                                                                                                      |
| A                                                                    | ATEX/IECEX                                                                                                                                           |
| C                                                                    | CSA                                                                                                                                                  |
| Mounting plate                                                       |                                                                                                                                                      |
| 00                                                                   | No additional mounting hardware                                                                                                                      |
| 04                                                                   | New installation plate - 7.75 in. (196.85 mm) square diameter, 3.25 in. (82.55 mm) clearance hole, 6.00 in. (152.4 mm) bolt circle, 5/8-11 UNC studs |
| 05                                                                   | New installation plate - 8.46 in. (215 mm) square diameter, 3.25 in. (82.5 mm) clearance hole, 6.7 in. (170 mm) bolt circle, M16 x 2 studs           |
| 09                                                                   | Adapter plate for existing ANSI 4 in. (101.6 mm), 150# flange                                                                                        |
| 10                                                                   | Adapter plate for existing ANSI 6 in. (152.4 mm), 150# flange                                                                                        |
| 11                                                                   | Adapter plate for existing ANSI 3 in. (76.2 mm), 300# flange                                                                                         |
| 12                                                                   | Adapter plate for existing ANSI 4 in. (101.6 mm), 300# flange                                                                                        |
| 99                                                                   | Special adapter - provide existing flange dimensions, including thru-hole diameters                                                                  |
| Manual calibration accessories                                       |                                                                                                                                                      |
| 00                                                                   | None                                                                                                                                                 |
| 01                                                                   | Calibration and reference gas flowmeters and reference air filter regulator, provided loose                                                          |
| 02                                                                   | Calibration and reference gas flowmeters and reference air filter regulator, mounted in a panel                                                      |
| Enable: Stoichiometer indicator for reducing conditions <sup>1</sup> |                                                                                                                                                      |
| 0                                                                    | No                                                                                                                                                   |
| 1                                                                    | Yes                                                                                                                                                  |
| Enable: Programmable reference function <sup>1</sup>                 |                                                                                                                                                      |
| 0                                                                    | No                                                                                                                                                   |
| 1                                                                    | Yes                                                                                                                                                  |
| Enable: Extended temperature function <sup>1</sup>                   |                                                                                                                                                      |
| 0                                                                    | No                                                                                                                                                   |
| 1                                                                    | Yes                                                                                                                                                  |
| Enable: Diffuser warning <sup>1</sup>                                |                                                                                                                                                      |
| 0                                                                    | No                                                                                                                                                   |
| 1                                                                    | Yes                                                                                                                                                  |

1. FOUNDATION Fieldbus versions only (for HART versions, order this feature with Rosemount Xi Electronics).

## Rosemount™ 6888 Xi Digital Transmitter for general purpose locations



The Rosemount 6888 Xi brings an at a glance view of pertinent information provided by an easy to use display and interface which effortlessly connects with a PLC or DCS via HART®/4-20 mA. It creates a centralized infrastructure for remote autocalibration devices, diagnostic tools, alarm relay(s), and advanced application features. The Rosemount 6888Xi is configurable to have up to two channels for digital inputs or one channel for supporting traditional architectures.

- Easy to use operator interface and design
- Plugged diffuser diagnostic measures response time and detects a plugged diffuser or empty gas bottle
- Stoichiometer provides an oxygen reading during reducing conditions, indicating extent of O<sub>2</sub> deficiency

### Additional information

Specifications can be found on page 13. Drawings are provided on page 19.

Specification and selection of product materials, options, or components must be made by the purchaser or the equipment. See page 13 for more information on material selection.

**Table 3. Rosemount 6888 Xi Digital Transmitter for General Purpose Locations**

| Model                    | Product description                                               |
|--------------------------|-------------------------------------------------------------------|
| 6888Xi                   | Digital Transmitter                                               |
| <b>Measurement</b>       |                                                                   |
| 1OXY                     | Single digital input (HART)                                       |
| 2OXY                     | Single digital input (HART) and flame safety interlock for heater |
| 3OXY                     | Two digital inputs (HART)                                         |
| 4OXY <sup>1</sup>        | Single traditional architecture input                             |
| <b>Mounting</b>          |                                                                   |
| 00                       | No hardware                                                       |
| 01                       | Panel mount kit with gasket                                       |
| 02                       | 2 in. pipe/wall mount kit                                         |
| <b>Cable<sup>2</sup></b> |                                                                   |
| 00                       | No cable                                                          |
| 10                       | 20 ft (6 m) cable, use with traditional architecture probe only   |
| 11                       | 40 ft (12 m) cable, use with traditional architecture probe only  |
| 12                       | 60 ft (18 m) cable, use with traditional architecture probe only  |
| 13                       | 80 ft (24 m ) cable, use with traditional architecture probe only |
| 14                       | 100 ft (30 m) cable, use with traditional architecture probe only |
| 15                       | 150 ft (45 m) cable, use with traditional architecture probe only |



| Enable: Stochiometer indicator for reducing conditions |                |
|--------------------------------------------------------|----------------|
| 00                                                     | No             |
| 01                                                     | Single channel |
| 02                                                     | Dual channel   |
| Enable: Programmable reference function                |                |
| 00                                                     | No             |
| 01                                                     | Single channel |
| 02                                                     | Dual channel   |
| Enable: Extended temperature function                  |                |
| 00                                                     | No             |
| 01                                                     | Single channel |
| 02                                                     | Dual channel   |
| Enable: Plugged diffuser diagnostics                   |                |
| 00                                                     | No             |
| 01                                                     | Single channel |
| 02                                                     | Dual channel   |

1. Compatible with oxygen probes utilizing a 120 V heater only.
2. Cables are not rated for use in hazardous locations and must be installed in accordance with local and national codes.

## Rosemount™ SPS 4001B and Rosemount IMPS 4000 Autocalibration Devices for general purpose locations



The Rosemount SPS 4001B and Rosemount IMPS 4000 are cost-effective calibration systems which conveniently sequence calibration gases without any labor from an operator or maintenance technician. Calibration flowmeter(s) and reference air flowmeter(s)/regulator(s) are included with the autocalibration manifold. The calibration can be initiated by a contact relay or timer or automatically via calibration recommended diagnostic. The Rosemount SPS 4001B is designed to automatically calibrate one oxygen analysis system. The Rosemount IMPS 4000 is configurable to automatically calibrate one to four oxygen analysis systems. Both the Rosemount SPS 4001B and Rosemount IMPS 4000 require a Rosemount 6888 Xi Transmitter or Oxymitter electronics.

- Complete autocalibration assembly: includes calibration flowmeter and reference air flowmeter/regulator and solenoids mounted on a single manifold
- Automatic calibrations reduce operator time to ensure continuously accurate readings
- Rosemount IMPS 4000 enclosure designed to accept a customer's z-purge system to meet hazardous area requirements

### Additional information

Specifications can be found on page 13. Drawings can be found on page 19.

Specification and selection of product materials, options, or components must be made by the purchaser of the equipment. See page 13 for more information on material selection.

**Table 4. Rosemount SPS 4001B and Rosemount IMPS 4000 Autocalibration Devices for General Purpose Locations**

| Model                                       | Product description                                                  |
|---------------------------------------------|----------------------------------------------------------------------|
| XSO2CAL                                     | Autocalibration accessories                                          |
| <b>Single probe autocalibration options</b> |                                                                      |
| 00                                          | None                                                                 |
| 01                                          | SPS 4001B single probe sequencer                                     |
| <b>Multiprobe autocalibration options</b>   |                                                                      |
| 00                                          | None                                                                 |
| 01                                          | Intelligent multiprobe sequencer (IMPS) - 1 probe                    |
| 02                                          | Intelligent multiprobe sequencer (IMPS) - 2 probes                   |
| 03                                          | Intelligent multiprobe sequencer (IMPS) - 3 probes                   |
| 04                                          | Intelligent multiprobe sequencer (IMPS) - 4 probes                   |
| 05                                          | Intelligent multiprobe sequencer (IMPS) with 115 V heater - 1 probe  |
| 06                                          | Intelligent multiprobe sequencer (IMPS) with 115 V heater - 2 probes |
| 07                                          | Intelligent multiprobe sequencer (IMPS) with 115 V heater - 3 probes |
| 08                                          | Intelligent multiprobe sequencer (IMPS) with 115 V heater - 4 probes |
| 09                                          | Intelligent multiprobe sequencer (IMPS) with 220 V heater - 1 probe  |
| 10                                          | Intelligent multiprobe sequencer (IMPS) with 220 V heater - 2 probes |
| 11                                          | Intelligent multiprobe sequencer (IMPS) with 220 V heater - 3 probes |
| 12                                          | Intelligent multiprobe sequencer (IMPS) with 220 V heater - 4 probes |

# How to order: Complete Oxygen Analysis system

The Rosemount™ In-Situ Oxygen Analysis system can be configured as two types of architectures.

**Digital:** A digital output of either 4-20 mA with digital signal based on HART® or FOUNDATION™ Fieldbus is transmitted directly from the probe.

**Traditional:** Raw sensor and thermocouple voltages are output from the probe to a remote transmitter. The remote transmitter outputs the 4-20 mA with digital signal based on HART.

**How to order:**

- 1. Choose a Rosemount 6888A or Rosemount 6888C model and decide which type of architecture is desired. The architecture type is specified in the Housing and electronics code in the model number.
- 2. Choose a corresponding Rosemount 6888Xi model<sup>1</sup> to match the architecture type of the Rosemount 6888A or Rosemount 6888C. The architecture type is specified by the Remote Type code in the model number.
- 3. Based on the architecture type, choose the appropriate interconnect cable.
- 4. Rosemount SPS 4001B and Rosemount IMPS 4000 autocalibration devices are optional to include with an oxygen analysis system.

| Architecture | Rosemount 6888A/<br>Rosemount 6888C Housing and electronics code | Rosemount 6888 Xi Remote type code | Interconnect cable                                          |
|--------------|------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------|
| Digital      | 1HT, 2HT, 4FF                                                    | 1OXY, 2OXY, 3OXY                   | 18 AWG two wire shielded cable, customer supplied           |
| Traditional  | 5DR                                                              | 4OXY                               | 7 conductor cable, available through Rosemount <sup>2</sup> |



1. For digital architecture, Rosemount 6888 Xi, Rosemount Field Communicator, or PLC/DCS required to interface with Rosemount 6888A or 6888C models.  
2. 7 conductor cable orderable through Rosemount 6888Xi model matrix or by part number.

## Specifications

**Table 5. Performance Specifications**

| Specification                                            | Rosemount™ 6888A, Rosemount 6888C                                                                                                                           | Rosemount 6888 Xi |
|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Factory calibrated O <sub>2</sub> range                  | 0-10%                                                                                                                                                       |                   |
| User configurable O <sub>2</sub> range                   | Lower (LRL) O <sub>2</sub> : 0 - 10%<br>Upper (URL) O <sub>2</sub> : 0 - 50%                                                                                |                   |
| Repeatability                                            | ±0.75% of reading or 0.05% of O <sub>2</sub> , whichever is greater                                                                                         |                   |
| Process temperature effect on repeatability              | 0.05% O <sub>2</sub> for 100 to 700 °C (212 to 1292 °F) temperature range                                                                                   | N/A               |
| Lowest detection limit                                   | 0.02% O <sub>2</sub>                                                                                                                                        | N/A               |
| Calibration gas repeatability                            | ±0.02% O <sub>2</sub>                                                                                                                                       | N/A               |
| System speed of response to calibration gas <sup>1</sup> | T <sub>initial</sub> < 3 seconds<br>T90 < 8 seconds                                                                                                         | N/A               |
| Accuracy of stoichiometer reducing condition indicator   | ±0.1% of reading or 0.1% O <sub>2</sub> , whichever is greater                                                                                              |                   |
| Reducing conditions: system response                     | From oxidizing to reducing - T90 in 120 sec<br>From reducing to oxidizing - T90 in 30 sec                                                                   |                   |
| Calibration gases                                        | Low: 0.4 to 2% O <sub>2</sub> , balance nitrogen<br>High: 8 to 21% O <sub>2</sub> , balance nitrogen<br>Regulate to 20 psi (137.9 kPa), 5 scfh (2.36 L/min) |                   |
| Reference air (recommended)                              | Instrument air (clean, dry)<br>Regulate to 5 psi (34 kPa), 2 scfh (0.94 L/min)                                                                              | N/A               |

1. Response to process gas changes may vary depending on process conditions and product lifetime.

**Table 6. Calibration Modes**

| Standard housing: Rosemount 6888A, Rosemount 6888C                 |                                   |                |
|--------------------------------------------------------------------|-----------------------------------|----------------|
| Additional devices                                                 | Initiation                        | Gas sequencing |
| None                                                               | DCS or field communicator         | Manually       |
| Rosemount 6888Xi                                                   | Manually                          | Manually       |
| Rosemount 6888Xi, Rosemount SP4001B                                | Manually, timer, or contact relay | Automated      |
| Rosemount 6888Xi, Rosemount IMPS4000                               | Manually, timer, or contact relay | Automated      |
| Integral autocalibration housing: Rosemount 6888A, Rosemount 6888C |                                   |                |
| Additional devices                                                 | Initiation                        | Gas sequencing |
| None                                                               | Manually or timer                 | Automated      |
| Rosemount 6888Xi                                                   | Manually, timer, or contact relay | Automated      |

## Functional specifications

### Temperature limits

**Table 7. Process Temperature Limits**

|                           | Process                      | Process mounting                     |
|---------------------------|------------------------------|--------------------------------------|
| With snubber diffuser     | 0 to 400 °C (32 to 750 °F)   | 200 °C (392 °F) maximum <sup>1</sup> |
| With ceramic diffuser     | 0 to 705 °C (32 to 1301 °F)  | 200 °C (392 °F) maximum <sup>1</sup> |
| With Hastelloy diffuser   | 0 to 705 °C (32 to 1301 °F)  | 200 °C (392 °F) maximum <sup>1</sup> |
| Bypass accessory          | 0 to 1050 °C (32 to 1922 °F) | 200 °C (392 °F) maximum              |
| Abrasive shield accessory | 0 to 705 °C (32 to 1301 °F)  | 200 °C (392 °F) maximum              |

1. 190 °C (374 °F) for hazardous locations (only applies to the Rosemount 6888C)

**Table 8. Ambient Temperature Limits**

| Rosemount 6888A                 | Rosemount 6888C                 | Rosemount 6888 Xi             | Rosemount SPS 4001B             | Rosemount IMPS 4000          | Rosemount IMPS 4000 with heater |
|---------------------------------|---------------------------------|-------------------------------|---------------------------------|------------------------------|---------------------------------|
| -40 to 70 °C<br>(-40 to 158 °F) | -40 to 70 °C<br>(-40 to 158 °F) | -20 to 50 °C<br>(4 to 122 °F) | -40 to 65 °C<br>(-40 to 149 °F) | 0 to 55 °C<br>(32 to 131 °F) | -35 to 55 °C<br>(-31 to 131 °F) |

### Storage temperature limits

-40 to 70 °C (-40 to 158 °F)

## Electrical

### Rosemount 6888A/Rosemount 6888C power requirements and consumption

Digital: 120/240 Vac, 50/60 Hz, 260/1020 VA max

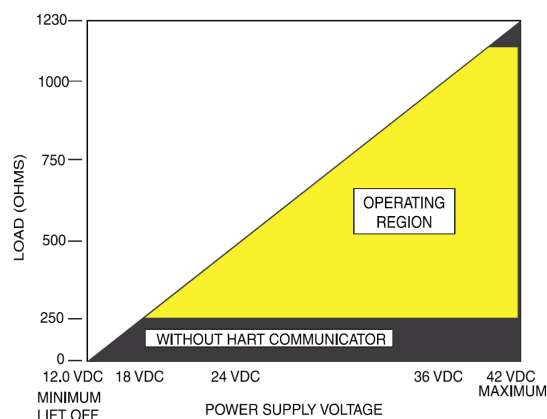
Traditional: 120/240 Vac, 50/60 Hz, 260/1020 VA max

### Rosemount 6888Xi power requirements

Digital, single/dual inputs: 120/240 Vac, 50/60 Hz, 12 VA max

Digital, single input with flame safety interlock: 120/240 Vac, 50/60 Hz, 260/1020 VA max<sup>1</sup>

**Figure 1. Rosemount 6888A/Rosemount 6888C Transmitter Electronics and Rosemount 6888 Xi Maximum Loop Resistance is Determined by the Voltage Level of the External Power Supply, as Described by:**



1. Power consumption is primarily driven by the oxygen probe.

**Load limitations**

The Field Communicator requires a minimum loop resistance of 250  $\Omega$  for communication.

**Rosemount SPS 4001B**

100 to 240 Vac, 50/60 Hz, 15 VA

**Rosemount IMPS 4000**

85 to 264 Vac, 50/60 Hz, 50 VA

**Physical specifications**

**Process wetted parts:** 316L or 304 stainless steel

**Process connections:** 2 in. 150# (4.75 in. (121 mm) bolt circle) DIN (5.71 in. (145 mm) bolt circle)

**Orientation:** Vertical or horizontal mount

**Table 9. Mounting Hardware and Adapter Plates**

|                                             | O.D.                                 | Bolt circle          | Studs        |
|---------------------------------------------|--------------------------------------|----------------------|--------------|
| Square weld plate, ANSI studs               | 7.75 x 7.75 in. (196.85 x 196.85 mm) | 6.00 in. (152.4 mm)  | 5/8-11 UNC   |
| Square weld plate, DIN studs                | 8.46 x 8.46 in. (215 x 215 mm)       | 6.69 in. (170 mm)    | M16 x 2      |
| Adapter to existing ANSI 4 in., 150# flange | 9.00 in. (228.6 mm)                  | 7.50 in. (190.5 mm)  | 5/8-11 UNC   |
| Adapter to existing ANSI 6 in., 150# flange | 11.00 in. (297.4 mm)                 | 8.50 in. (215.9 mm)  | 3/4 - 10 UNC |
| Adapter to existing ANSI 3 in., 300# flange | 8.25 in. (209.55 mm)                 | 6.62 in. (166.15 mm) | 3/4 - 10 UNC |
| Adapter to existing ANSI 4 in., 300# flange | 10.00 in. (254 mm)                   | 7.88 in. (200.15 mm) | 3/4 - 10 UNC |

Spool piece P/N is available to offset probe electronics housing from hot duct work.

|            | ANSI       | DIN        |
|------------|------------|------------|
| A          | 6.00 (153) | 7.50 (191) |
| B thread   | 0.625 (11) | M-16 x 2   |
| C diameter | 4.75 (121) | 5.71 (145) |

**Table 10. Electrical Conduit Size**

|                    | Rosemount 6888A | Rosemount 6888C | Rosemount 6888 Xi | Rosemount SPS 4001B | Rosemount IMPS 4000 |
|--------------------|-----------------|-----------------|-------------------|---------------------|---------------------|
| Conduit fitting    | 1/2 - 14 NPT    | 1/2 - 14 NPT    | 1/2 - 14 NPT      | 1/2 - 14 NPT        | 1/2 - 14 NPT        |
| Number of fittings | 2               | 2               | 6                 | 2                   | 2                   |

**Table 11. Shipping Weights**

|                                     | 6888A           | 6888C           |
|-------------------------------------|-----------------|-----------------|
| 18 in. (457 mm) standard probe tube | 16 lb (7.3 kg)  | 21 lb (9.5 kg)  |
| 3 ft (0.91 m) standard probe tube   | 21 lb (9.5 kg)  | 26 lb (11.8 kg) |
| 6 ft (1.83 m) standard probe tube   | 27 lb (12.2 kg) | 32 lb (14.5 kg) |
| 9 ft (2.74 m) standard probe tube   | 33 lb (15.0 kg) | N/A             |
| 12 ft (3.66 m) standard probe tube  | 39 lb (17.7 kg) | N/A             |

## Rosemount™ 6888 product certifications

### European Directive information

A copy of the EC Declaration of Conformity can be found at the end of the Rosemount 6888C Quick Start Guide. The most recent version of the EC Declaration of Conformity can be found at [Emerson.com/Rosemount](http://Emerson.com/Rosemount).

### Ordinary location certification

As standard, the transmitter has been examined and tested to determine that the design meets the basic electrical, mechanical, and fire protection requirements by a nationally recognized test laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

### Installing equipment in North America

The US National Electrical Code (NEC) and the Canadian Electrical Code (CEC) permit the use of Division marked equipment in Zones and Zone marked equipment in Divisions. The markings must be suitable for the area classification, gas, and temperature class. This information is clearly defined in the respective codes.

### Rosemount 6888A In-Situ Oxygen Transmitter for general purpose locations

#### USA

**FM Certificate:** 3042889

**Standards:** FM 3810: 2005, ANSI/IEC 250: 2003, ANSI/IEC 60529: 2004

**Markings:**  Type 4X, IP66

Special conditions for use

1. Type 4X and IP66 applies to the transmitter portion that is mounted externally to the flue duct.

#### Canada

**CSA Certificate:** 1913435

**Standards:** CAN/CSA C22.2 No. 61010-1-04, UL 61010-1:2004 (2nd Edition), UL 50 (11th Ed.), IEC 60529 (Edition 2.1-2001-02), NEMA 250-2003

**Markings:**  Type 4X, IP66

#### Europe

**TÜVRheinland**

**QAL1 Certificate:** 0000038506

**Standards:** EN15267-1:2009, EN15627-2:2009, EN15627-3:2007, EN14181:2004

**MCERTS**

**Certificates:** Sira MC140270/00

**Standards:** EN15267-1:2009, EN15627-2:2009, EN15627-3:2007, EN14181:2004



## Rosemount 6888C In-Situ Oxygen Transmitter for hazardous locations

### USA/Canada

**Model String Option Code:** C

**CSA Certificate:** 70100758

**Standards:** CAN/CSA Standard C22.2 No.0-10:2015, CAN/CSA C22.2 No.61010-1-12 Harmonized UL 61010-1:2012 (3rd Edition), CAN/CSA Standard C22.2 No. 94.1-15 Harmonized ANSI/UL Standard 50 (2nd Edition), CAN/CSA Standard C22.2 No. 94.2-15 Harmonized ANSI/UL Standard 50 (2nd Edition), CAN/CSA C22.2 No. 60529:16 and ANSI/ISA 60529:04, CAN/CSA Standard C22.2 No. 30-M1986:2016, CAN/CSA-C22.2 No. 60079-0: 2015, CAN/CSA-C22.2 No. 60079-1:2016, FM 3600:2011, FM 3615:2006, ANSI/UL-60079-0:2013 (6th Edition), ANSI/UL-60079-1:2015 (7th Edition))

**Markings:** Ⓢ Type 4X, IP66, Class 1, Division 1, Groups B, C and D; T3, Class 1, Zone 1, AEx db IIB+H2 T3 Gb, Ex db IIB+H2 T3 Gb:  $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$  (Autocal Housing and Probe assembly);  $-40^{\circ}\text{C} \leq T_a \leq +90^{\circ}\text{C}$  (Standard Housing and Probe assembly eq. "DR Probe")

#### Conditions of acceptability

- The unit is to be connected to supply mains by qualified personnel in accordance with national (e.g., CEC, NEC, etc.) and local codes.
- Suitable APPROVED switch and fuse or a circuit breaker shall be provided to facilitate the disconnection of mains power..
- The maximum operating ambient is considered as follows:  $90^{\circ}\text{C}$  for 6888C DR Probe,  $70^{\circ}\text{C}$  for 6888C Transmitter.
- Mounting Flange temperature shall not exceed  $190^{\circ}\text{C}$  during combustion process.
- Calibration air lines and reference air lines shall not contain pure oxygen or combustible gas other than inert/oxygen gas mixture of which oxygen represents no more than that normally present in air.
- The pressure within the enclosure and gas lines shall not be higher than 1.1 times the atmospheric pressure during the normal operations of the equipment
- The 6888C O<sub>2</sub> Analyzers are used with the 6888 Xi Advanced Electronics, which must be installed in a Non-Hazardous Location, per wiring diagram 6R00131.
- Meets Enclosure Type 4X & IP66 ratings when the reference air vent is routed to a dry area.
- Units installed with conduit runs must have suitably certified conduit seals installed at the enclosure
- Units installed with other than conduit runs and conduit seals, must be fitted with certified or listed cable glands for use in "Class I, Zone 1, Ex/AEx d IIB+H2" and "Class I, Division 1, Group B, C and D" or better, suitable for the ambient temperature range.
- Flameproof joints are not intended to be repaired.

### Europe

**Model String Option Code:** A

**ATEX Certificate:** Sira 14ATEX1031X

**Standards:** EN 60079-0:2012/A11:2013, EN 60079-1:2014

**Markings:** Ⓢ II 2 G Ex db IIB+H2 T3 Gb; IP66;  $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$  (Autocal Housing and Probe assembly);  $-40^{\circ}\text{C} \leq T_a \leq +90^{\circ}\text{C}$  (Standard Housing and Probe assembly eq. "DR Probe")

Special conditions for safe use (X):

- Mounting Flange temperature shall not exceed  $190^{\circ}\text{C}$  during combustion process.
- The 6888C O<sub>2</sub> Analyzers are used with the 6888 Xi Advanced Electronics (associated equipment not part of this certification) which must be installed in a Safe Area.
- Calibration air lines and reference air lines shall not contain pure oxygen or combustible gas other than inert/oxygen gas mixture of which oxygen represents no more than that normally present in air.
- The pressure within the enclosure and gas lines shall not be higher than 1.1 times the atmospheric pressure during the normal operations of the equipment.
- Fasteners property class must be A2-70 Stainless Steel.
- Flameproof joints are not intended to be repaired.

**Model String Option Code:** A

**IECEx Certificate:** IECEx CSA 14.0044X

**Standards:** IEC 60079-0:2012/A11:2013, IEC 60079-1:2014

**Markings:** Ex db IIB+H2 T3 Gb; IP66;  $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$  (Autocal Housing and Probe assembly);  $-40^{\circ}\text{C} \leq T_a \leq +90^{\circ}\text{C}$  (Standard Housing and Probe assembly eq. "DR Probe")

Special conditions for safe use (X):

- Mounting Flange temperature shall not exceed  $190^{\circ}\text{C}$  during combustion process.
- The 6888C O<sub>2</sub> Analyzers are used with the 6888 Xi Advanced Electronics (associated equipment not part of this certification) which must be installed in a Safe Area.
- Calibration air lines and reference air lines shall not contain pure oxygen or combustible gas other than inert/oxygen gas mixture of which oxygen represents no more than that normally present in air.

4. The pressure within the enclosure and gas lines shall not be higher than 1.1 times the atmospheric pressure during the normal operations of the equipment.
5. Fasteners property class must be A2-70 Stainless Steel.
6. Flameproof joints are not intended to be repaired.

## Rosemount 6888Xi Digital Transmitter for general purpose locations

### USA

**FM Certificate:** 3042889

**Standards:** FM 3810:2005, ANSI/IEC:2003, ANSI/EC 60529:2004

**Markings:**  Type 4X

Special Conditions for Use:

1. Mounting option 01 was not certified to provide Type 4X ingress protection through the panel cut-out opening. The panel mount gasket has not been tested for Type 4X installation.

### Canada

**CSA Certificate:** 1913435

**Standards:** CAN/CSA C22.2 No. 61010-1-04, UL 61010-1:2004 (2nd Edition), CAN/CSA-C22.2 No.94-M91 (R2001), UL 50 (11th Ed.)

**Markings:**  Type 4X

## Rosemount SPS 4001B and Rosemount IMPS 4000 Autocalibration Devices for general purpose locations

### USA/Canada

**CSA Certificate:** 1640823

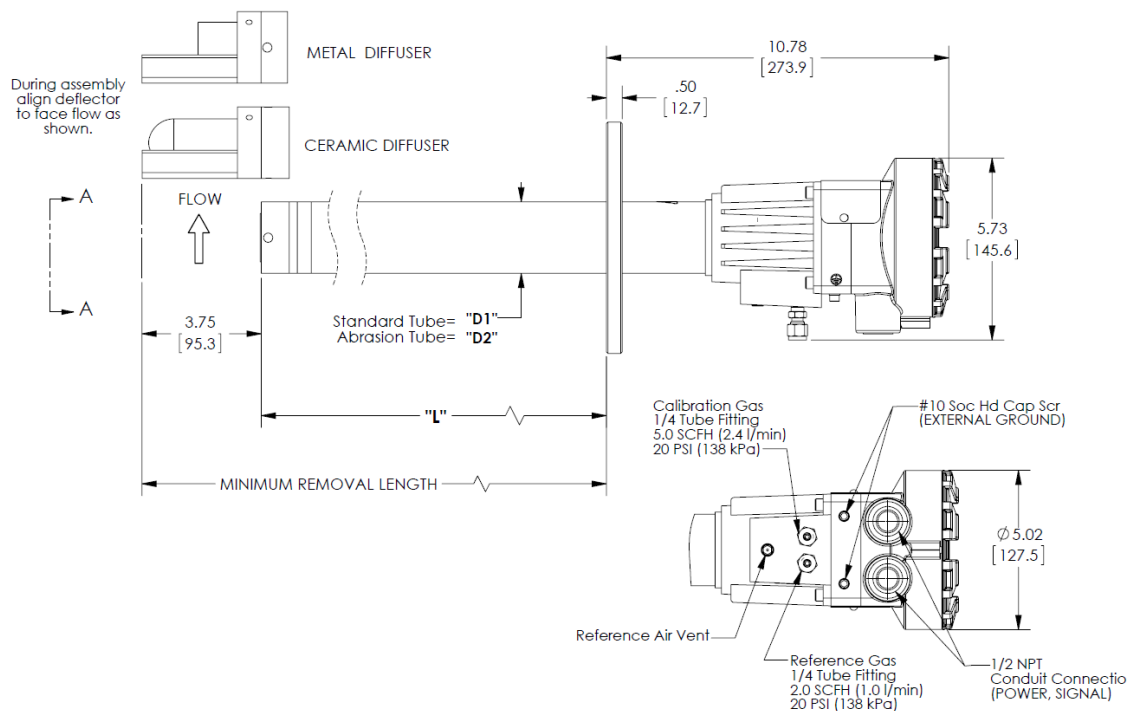
**Standards:** CAN/CSA C22.2 No. 61010-1-04; ANSI/UL 61010-1:2004, (2nd Edition); CSA C22.2 No. 94.1-07; ANSI/UL 50 (12th Edition); CSA C22.2 No. 94.2 (1st Edition); ANSI/UL 50 E First Edition; CSA C22.2 No. 60529:05 (R2010); ANSI/IEC 60529-2004 (R2011)

**Markings:** Type 4X, IP66



## Dimensions

Figure 2. Rosemount™ 6888A with Standard Housing

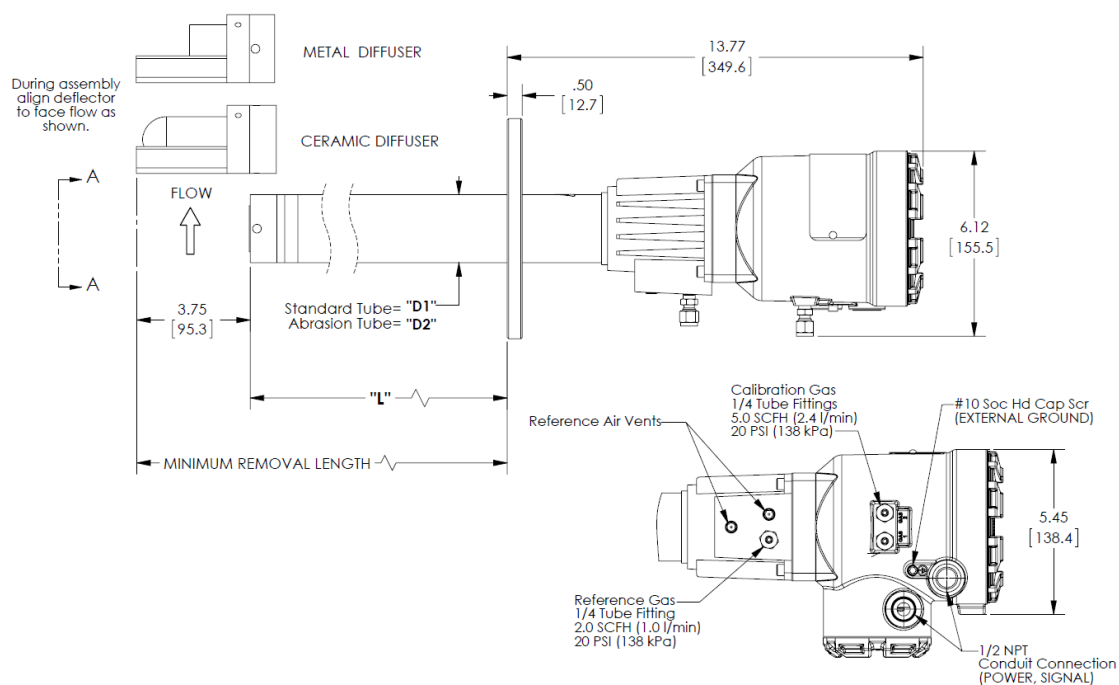


Dimensions are in inches [millimeters].

Table 12. Rosemount 6888A with Standard Housing - Removal/Installation

| Probe length    | Insertion depth (L)  | Minimum removal length | Standard Tube (D1)  | Abrasion Tube (D2)  |
|-----------------|----------------------|------------------------|---------------------|---------------------|
| 18 in. (457 mm) | 16.10 in. (409 mm)   | 27 in. (686 mm)        | 2.25 in. (57.15 mm) | 2.38 in. (60.45 mm) |
| 3 ft (0.91 m)   | 32.52 in. (826 mm)   | 46.6 in. (1182 mm)     | 2.25 in. (57.15 mm) | 2.38 in. (60.45 mm) |
| 6 ft (1.83 m)   | 68.52 in. (1740 mm)  | 82.6 in. (2097 mm)     | 2.25 in. (57.15 mm) | 2.38 in. (60.45 mm) |
| 9 ft (2.74 m)   | 104.52 in. (2655 mm) | 118.6 in. (3011 mm)    | N/A                 | 2.38 in. (60.45 mm) |
| 12 ft (3.66 m)  | 140.52 in. (3569 mm) | 154.6 in. (3926 mm)    | N/A                 | 2.38 in. (60.45 mm) |

Figure 3. Rosemount 6888A with Autocalibration Housing



Dimensions are in inches [millimeters].

Table 13. Rosemount 6888A with Autocalibration Housing - Removal/Installation

| Probe length    | Insertion depth (L)  | Minimum removal length | Standard Tube (D1)  | Abrasion Tube (D2)  |
|-----------------|----------------------|------------------------|---------------------|---------------------|
| 18 in. (457 mm) | 16.10 in. (409 mm)   | 29.87 in. (759 mm)     | 2.25 in. (57.15 mm) | 2.38 in. (60.45 mm) |
| 3 ft (0.91 m)   | 32.52 in. (826 mm)   | 50.1 in. (1271 mm)     | 2.25 in. (57.15 mm) | 2.38 in. (60.45 mm) |
| 6 ft (1.83 m)   | 68.52 in. (1740 mm)  | 86.1 in. (2186 mm)     | 2.25 in. (57.15 mm) | 2.38 in. (60.45 mm) |
| 9 ft (2.74 m)   | 104.52 in. (2655 mm) | 122.1 in. (3100 mm)    | N/A                 | 2.38 in. (60.45 mm) |
| 12 ft (3.66 m)  | 140.52 in. (3569 mm) | 158.1 in. (4015 mm)    | N/A                 | 2.38 in. (60.45 mm) |

Figure 4. Rosemount 6888A with Autocalibration Housing Field Connections - HART Output

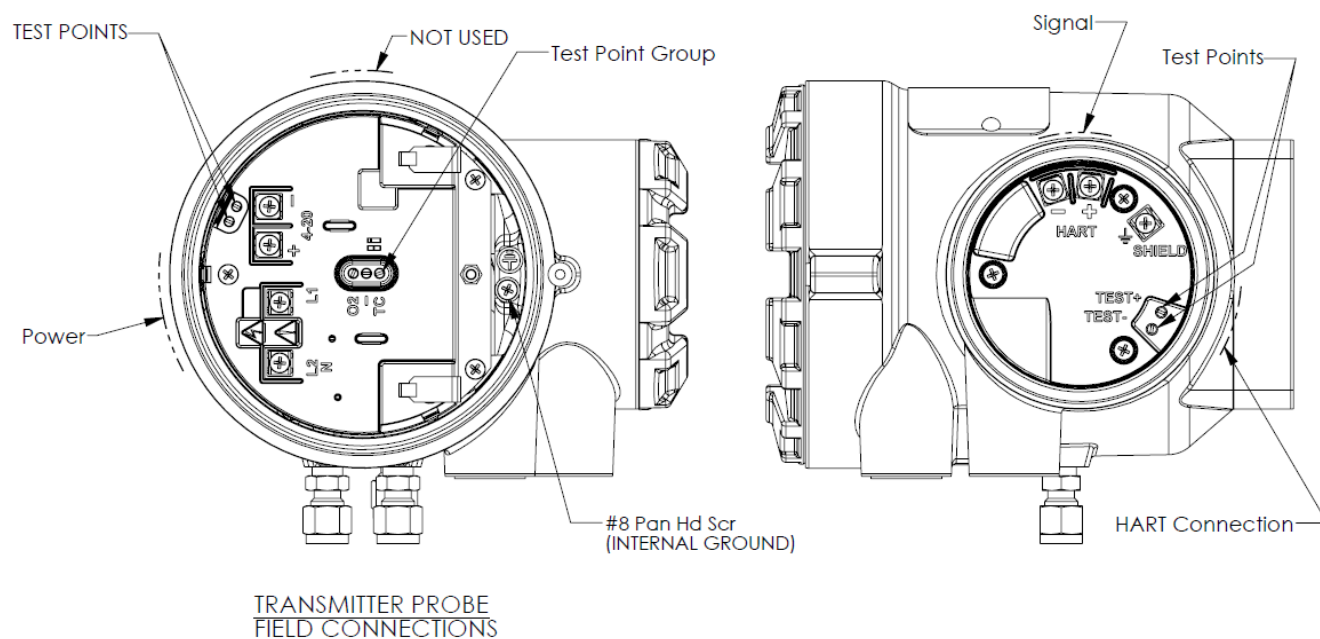
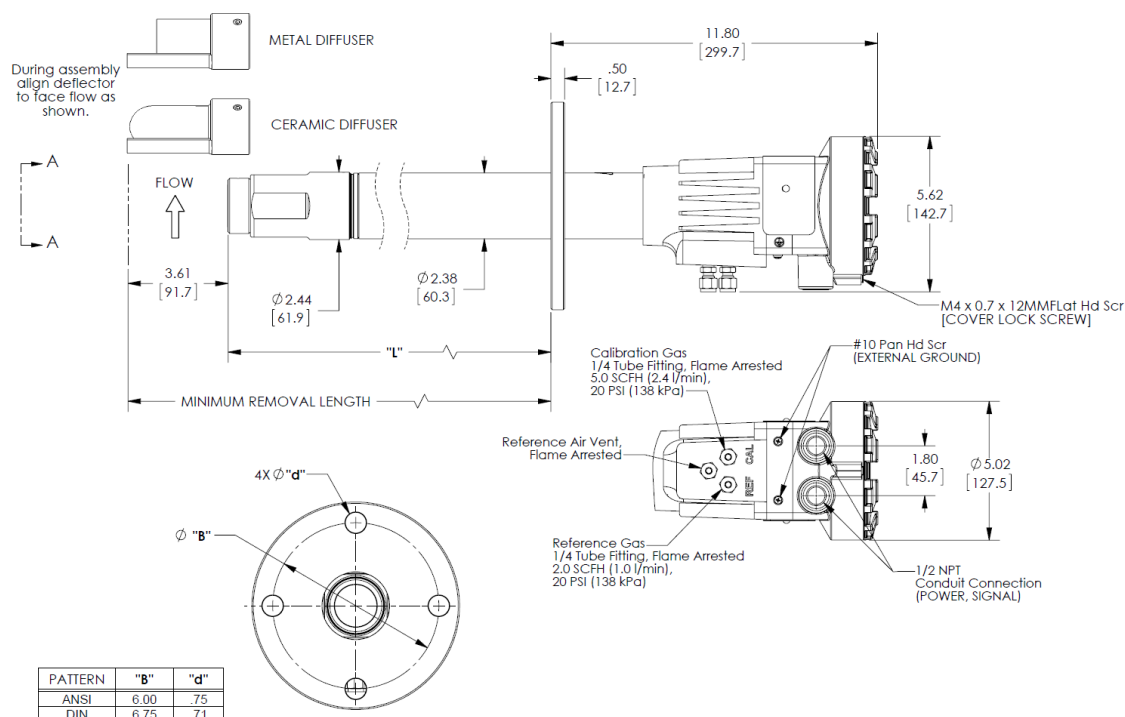


Figure 5. Rosemount 6888C with Standard Housing



Dimensions are in inches [millimeters].

| Probe length    | Insertion Depth (L) | Overall product length |
|-----------------|---------------------|------------------------|
| 18 in. (457 mm) | 18.86 in. (479 mm)  | 27 in. (686 mm)        |
| 3 ft (0.91 m)   | 36.86 in. (936 mm)  | 46.6 in. (1182 mm)     |
| 6 ft (1.83 m)   | 72.86 in. (1851 mm) | 82.6 in. (2097 mm)     |



| Probe length    | Insertion depth (L) | Minimum removal length |
|-----------------|---------------------|------------------------|
| 18 in. (457 mm) | 16.10 in. (409 mm)  | 29.87 in. (759 mm)     |
| 3 ft (0.91 m)   | 32.52 in. (826 mm)  | 50.1 in. (1271 mm)     |
| 6 ft (1.83 m)   | 68.52 in. (1740 mm) | 86.1 in. (2186 mm)     |

Figure 7. Rosemount 6888C with Standard Housing Field Connections - HART® Output

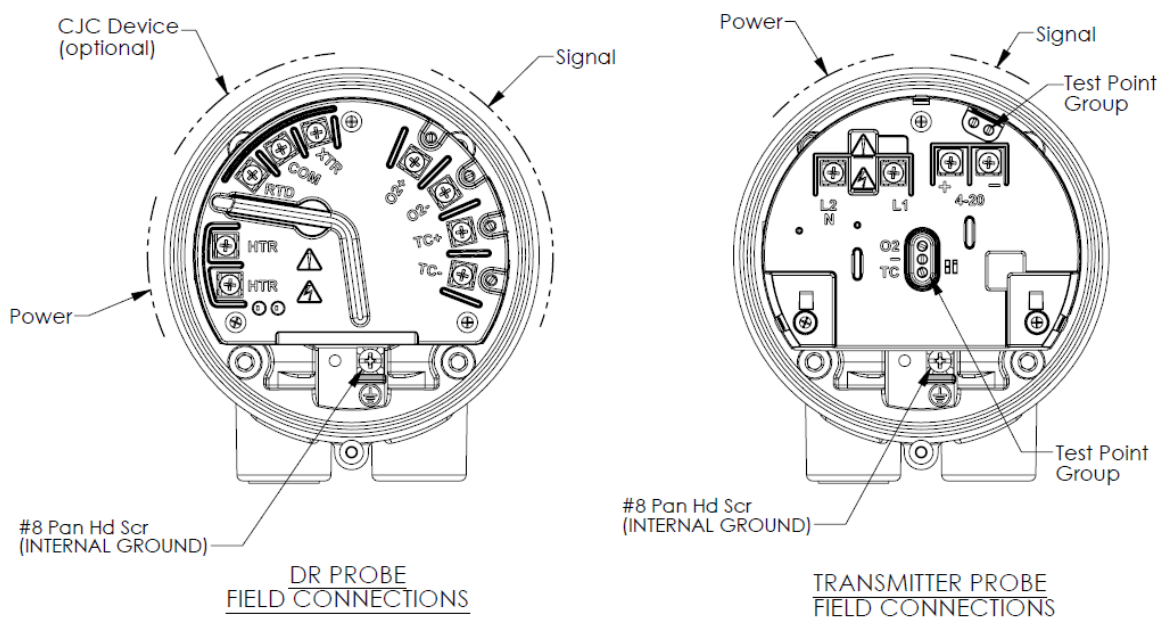
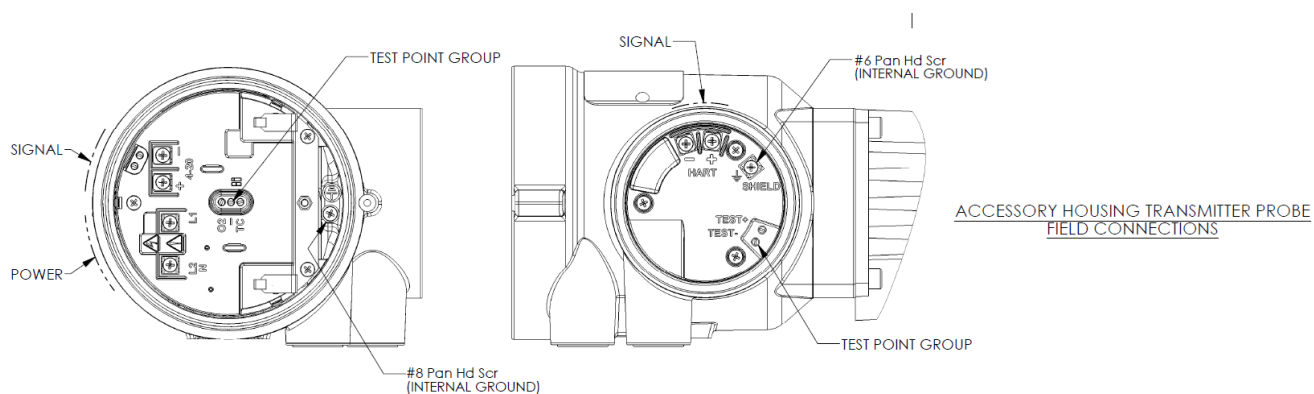
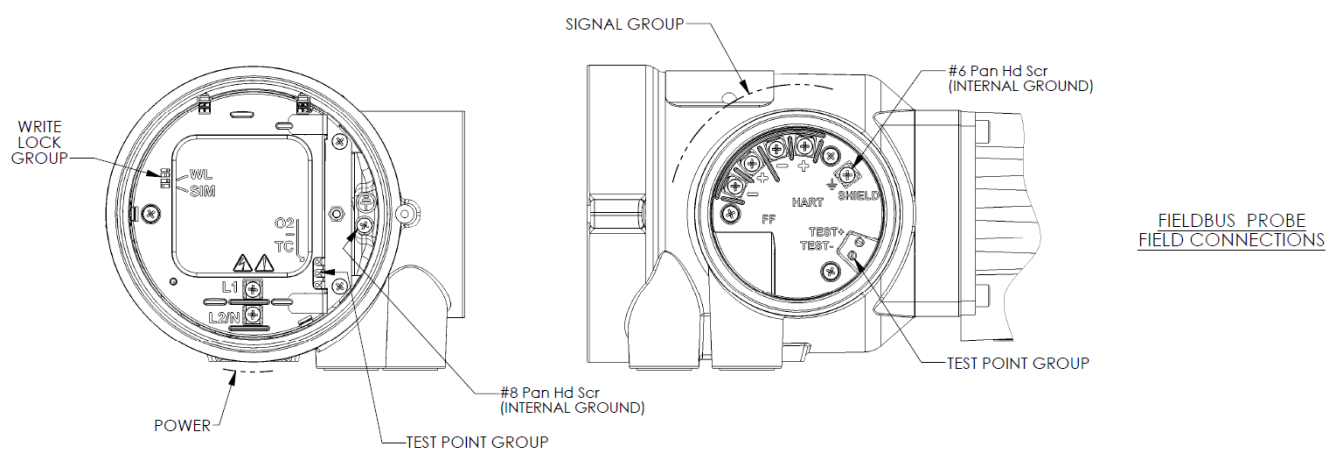


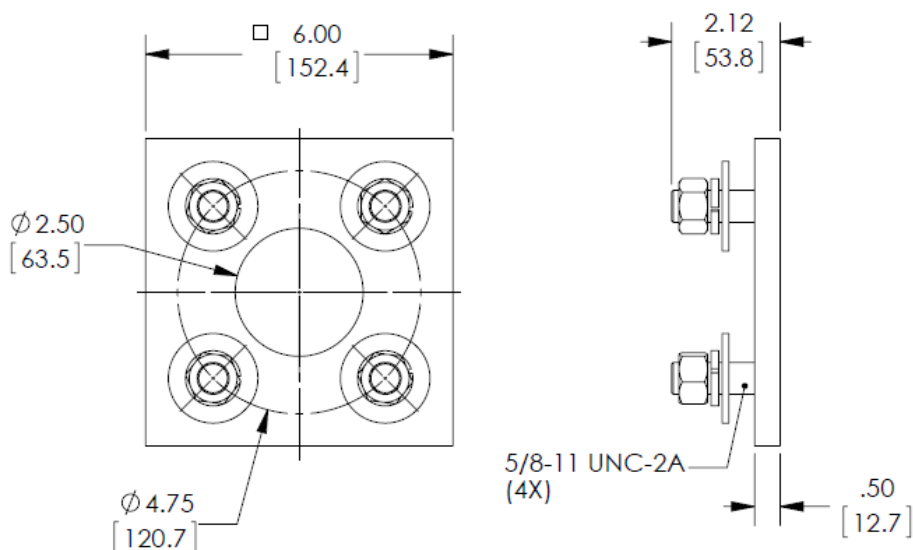
Figure 8. Rosemount 6888A/6888C with Autocalibration Housing Field Connections - HART Output



**Figure 9. Rosemount 6888A/6888C with Autocalibration Housing Field Connections - FOUNDATION™ Fieldbus Output**

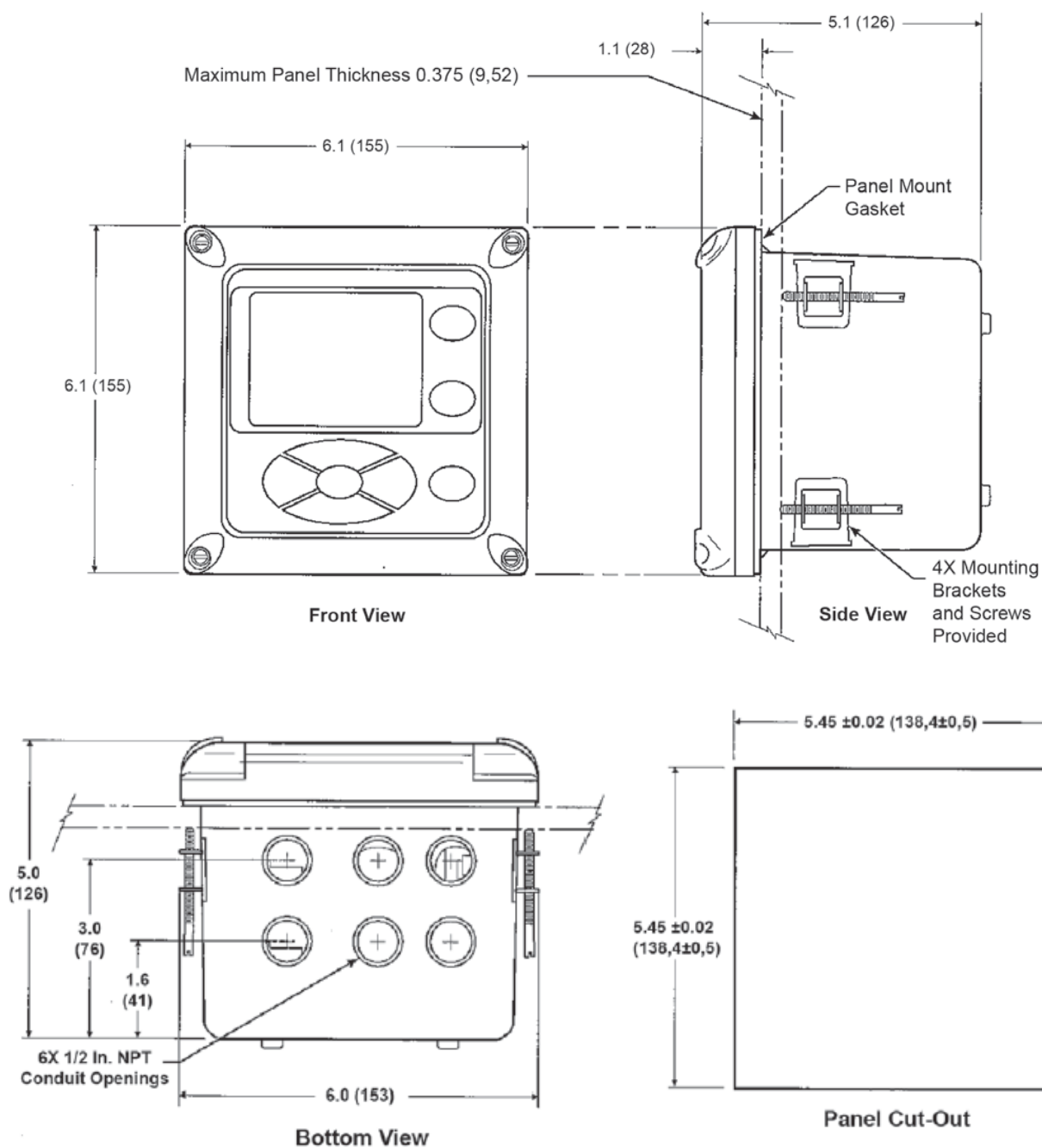


**Figure 10. Rosemount 6888A New Installation: Square Weld Plate**



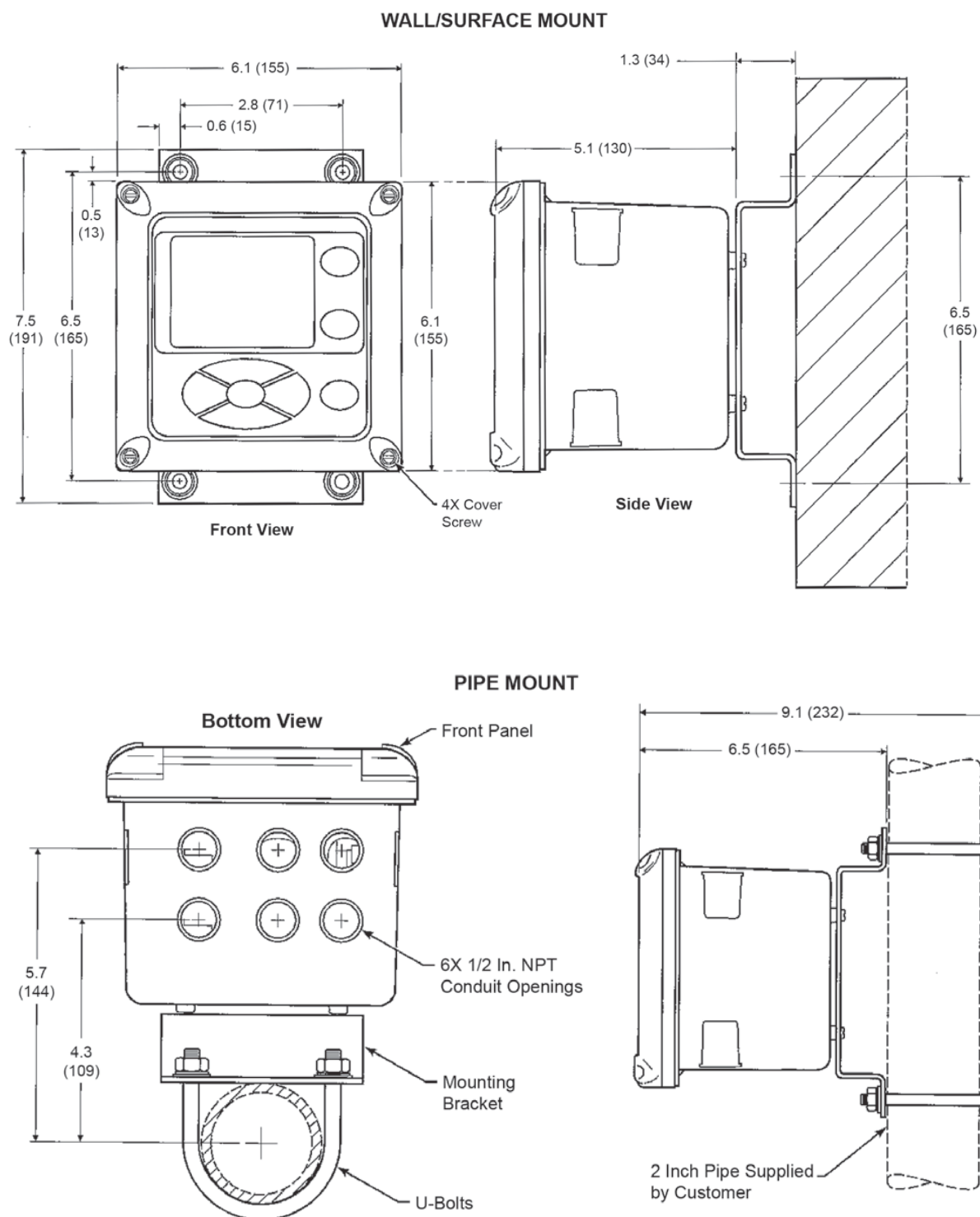
Dimensions are in inches [millimeters].



**Figure 11. Rosemount 6888Xi with Panel Mount**

Dimensions are in inches [millimeters].

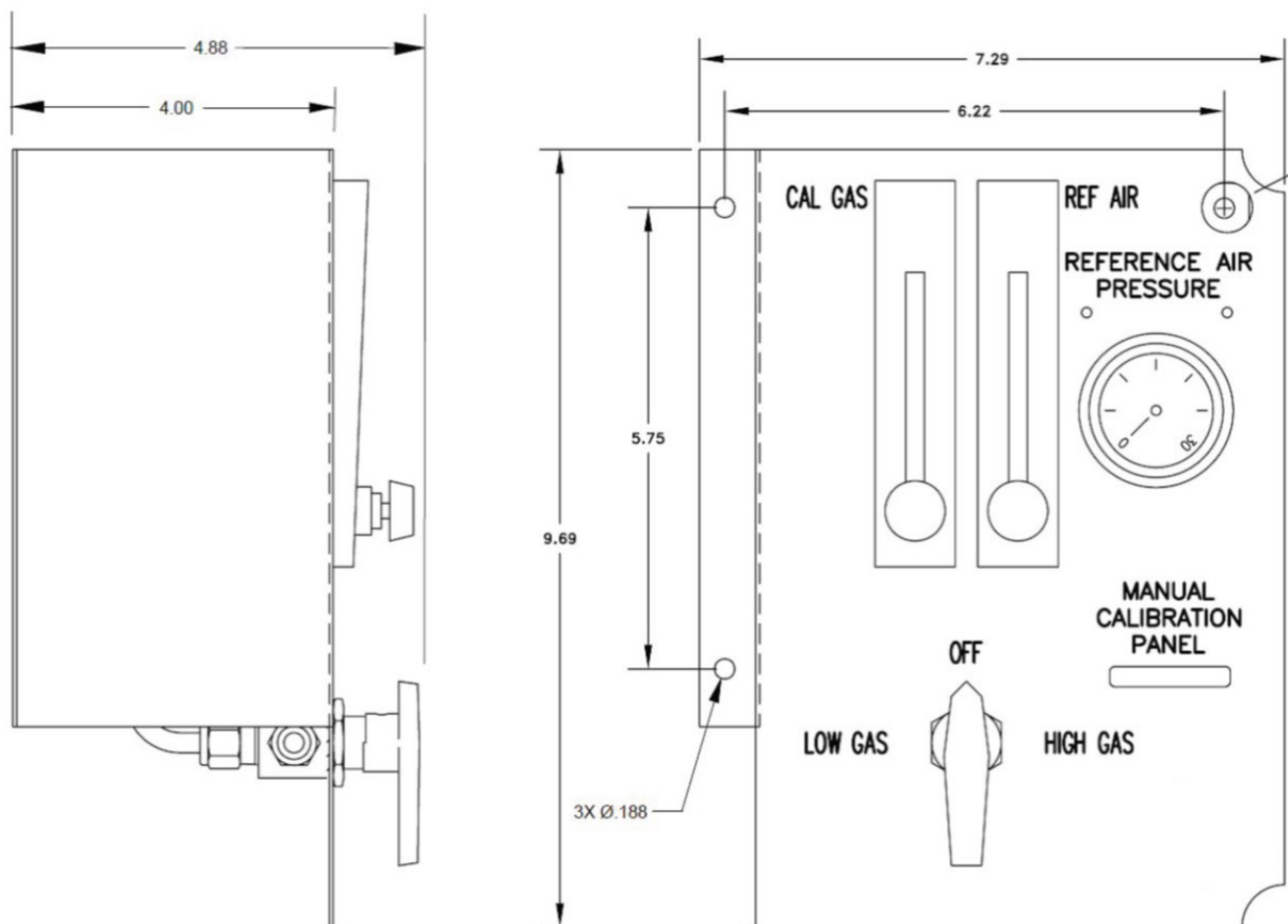
Figure 12. Rosemount 6888 Xi with Wall/Pipe Mount



Dimensions are in inches [millimeters].

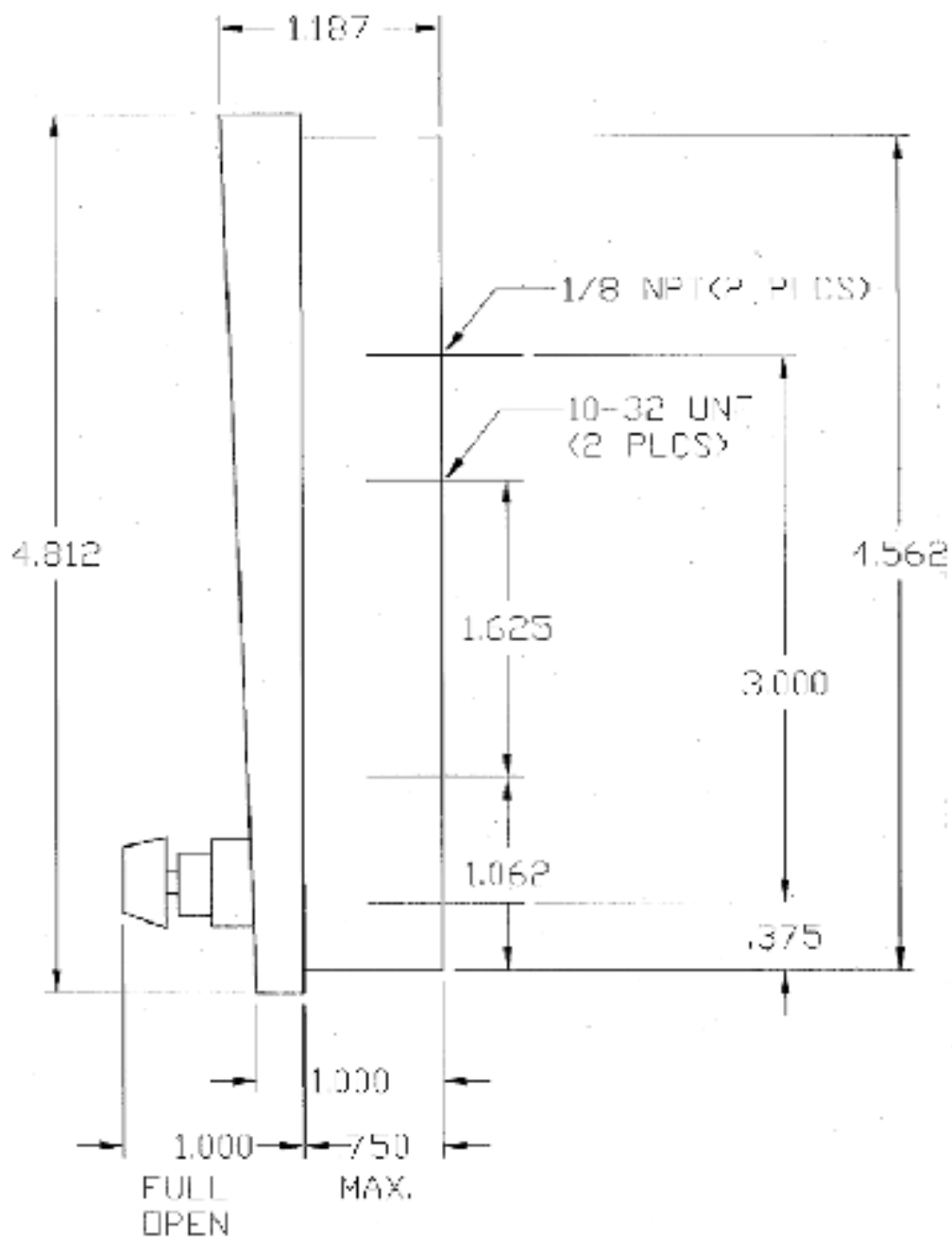
## Accessories

Figure 13. Manual Calibration Panel



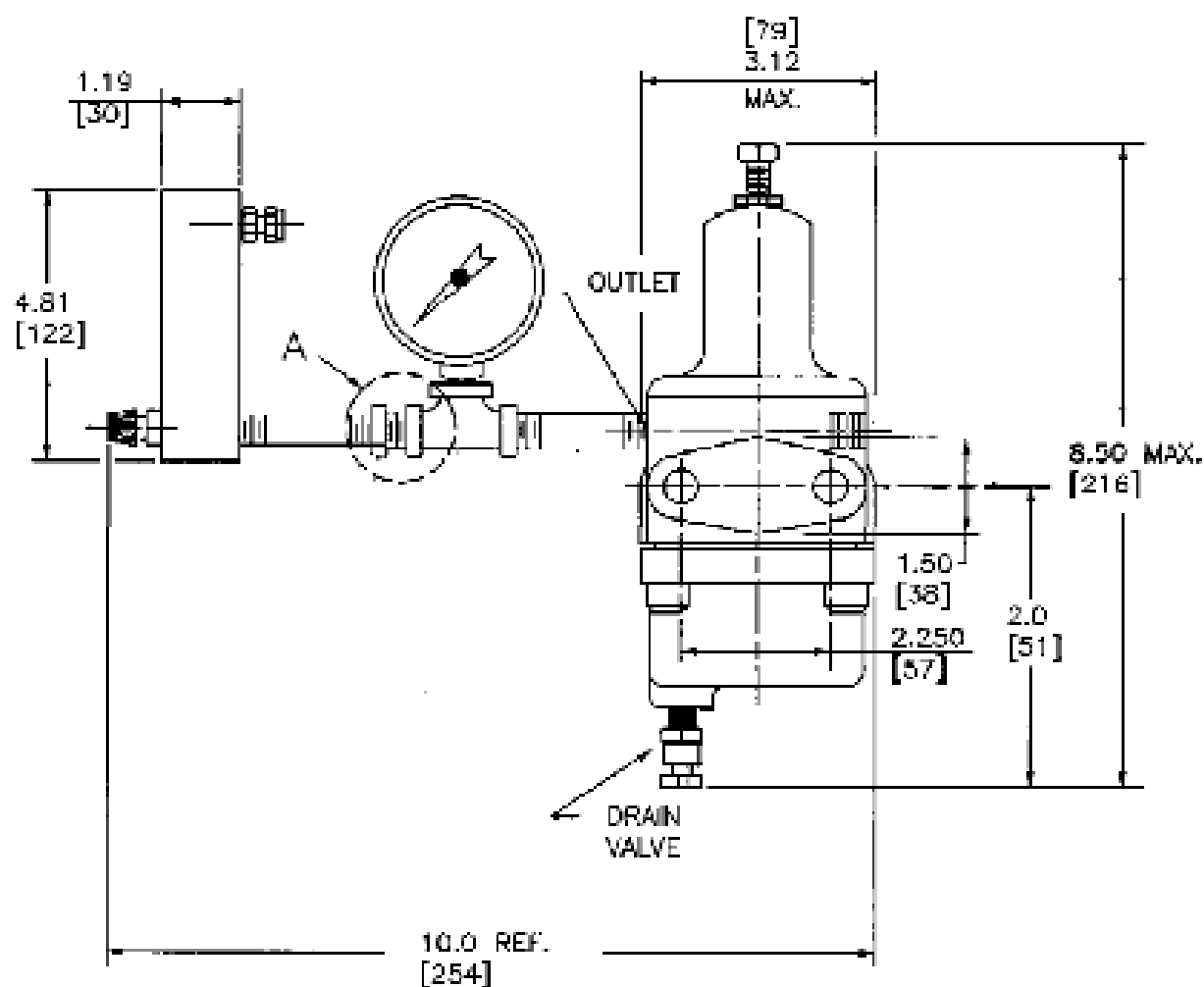
Dimensions are in inches.

Figure 14. Calibration Gas Flowmeter



Dimensions are in inches.

Figure 15. Reference Air Flowmeter and Regulator



Dimensions are in inches [millimeters].

Table 15. Rosemount 6888A and Rosemount 6888C Accessories

| Rosemount 6888A<br>part number | Rosemount 6888C<br>part number | Description                                                                                                                                                     |
|--------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6A00444G01 <sup>1</sup>        | 6A00202G09 <sup>1</sup>        | 20 ft (6.1 m) cable, traditional architecture, 1/2 NPT / 1/2 NPT                                                                                                |
| 6A00444G02 <sup>1</sup>        | 6A00202G10 <sup>1</sup>        | 40 ft (12.2 m) cable, traditional architecture, 1/2 NPT / 1/2 NPT                                                                                               |
| 6A00444G03 <sup>1</sup>        | 6A00202G11 <sup>1</sup>        | 60 ft (18.3 m) cable, traditional architecture, 1/2 NPT / 1/2 NPT                                                                                               |
| 6A00444G04 <sup>1</sup>        | 6A00202G12 <sup>1</sup>        | 80 ft (24.4 m) cable, traditional architecture, 1/2 NPT / 1/2 NPT                                                                                               |
| 6A00444G05 <sup>1</sup>        | 6A00202G13 <sup>1</sup>        | 100 ft (30.5 m) cable, traditional architecture, 1/2 NPT / 1/2 NPT                                                                                              |
| 6A00444G06 <sup>1</sup>        | 6A00202G14 <sup>1</sup>        | 150 ft (45.7) cable, traditional architecture, 1/2 NPT / 1/2 NPT                                                                                                |
| 6A00444G07 <sup>1</sup>        | 6A00202G15 <sup>1</sup>        | 200 ft (60.1 m) cable, traditional architecture, 1/2 NPT / 1/2 NPT                                                                                              |
| 3D39004G01                     |                                | 3 ft (0.9 m) ANSI bypass and mounting hardware package for use with 18 in. (457.2 mm) ANSI general purpose Rosemount 6888A, OXT4A, WC3000 O <sub>2</sub> probes |
| 3D39004G02                     |                                | 6 ft (1.8 m) ANSI bypass and mounting hardware package for use with 18 in. (457.2 mm) ANSI general purpose Rosemount 6888A, OXT4A, WC3000 O <sub>2</sub> probes |
| 3D39004G03                     |                                | 9 ft (2.7 m) ANSI bypass and mounting hardware package for use with 18 in. (457.2 mm) ANSI general purpose 6888A, OXT4A, WC3000 O <sub>2</sub> probes           |
| 3D39004G07                     |                                | 3 ft (0.9 m) DIN bypass and mounting hardware package for use with 18 in. (457.2 mm) DIN general purpose Rosemount 6888A, OXT4A, WC3000 O <sub>2</sub> probes   |
| 3D39004G08                     |                                | 6 ft (1.8 m) DIN bypass and mounting hardware package for use with 18 in. (457.2 mm) DIN general purpose Rosemount 6888A, OXT4A, WC3000, O <sub>2</sub> probes  |
| 3D39004G09                     |                                | 9 ft (2.7 m) DIN bypass and mounting hardware package for use with 18 in. (457.2 mm) DIN general purpose Rosemount 6888A, OXT4A, WC3000, O <sub>2</sub> probes  |
| 3D39003G01                     |                                | Abrasive shield assembly: ANSI 3 ft (0.9 m)                                                                                                                     |
| 3D39003G02                     |                                | Abrasive shield assembly: ANSI 6 ft (1.8 m)                                                                                                                     |
| 3D39003G05                     |                                | Abrasive shield assembly: DIN 3 ft (0.9 m)                                                                                                                      |
| 3D39003G06                     |                                | Abrasive shield assembly: DIN 6 ft (1.8 m)                                                                                                                      |
| 3D39003G07                     |                                | Abrasive shield assembly: ANSI 9 ft (2.7 m)                                                                                                                     |
| 3D39003G08                     |                                | Abrasive shield assembly: ANSI 12 ft (3.7 m)                                                                                                                    |
| 3D39003G11                     |                                | Abrasive shield assembly: DIN 9 ft (2.7 m)                                                                                                                      |
| 3D39003G12                     |                                | Abrasive shield assembly: DIN 12 ft (3.7 m)                                                                                                                     |
| 3D39003G13                     |                                | Abrasive shield assembly: ANSI 18 in. (457.2 mm)                                                                                                                |
| 3D39003G15                     |                                | Abrasive shield assembly: DIN 18 in. (457.2 mm)                                                                                                                 |
| 3D39003G25                     |                                | Abrasive shield assembly: ANSI 15 ft (4.6 m)                                                                                                                    |
| 3D39003G27                     |                                | Abrasive shield assembly: DIN 15 ft (4.6 m)                                                                                                                     |
| 3D39003G28                     |                                | Abrasive shield assembly: ANSI 18 ft (5.5 m)                                                                                                                    |
| 3D39003G30                     |                                | Abrasive shield assembly: DIN 18 ft (5.5 m)                                                                                                                     |
| 4512C36G01                     |                                | New installation square weld plate: 6 in. (152.4 mm) sq., 4.75 in. (120.7) bolt circle, 5/8-11 studs                                                            |
| 4512C36G02                     |                                | New installation, square weld plate: 7.5 in. (190.5 mm) sq., 5.7 in. (145 mm) bolt circle, M16x2 studs                                                          |
| 353B30G04                      |                                | Adapter plate: OXT4A/OCX/6888A ANSI to 3 in. (76.2 mm) 150# ANSI                                                                                                |
| 353B30G01                      |                                | Adapter plate: OXT4A/OCX/6888A ANSI to 4 in. (101.6 mm) 150# ANSI                                                                                               |
| 353B30G05                      |                                | Adapter plate: OXT4A/OCX/6888A ANSI to 6 in. (152.4 mm) 150# ANSI                                                                                               |
| 353B30G10                      |                                | Adapter plate: OXT4A/OCX/6888A ANSI to 3 in. (76.2 mm) 300# ANSI                                                                                                |
| 4851B78G21                     |                                | Adapter plate: OXT4A/OCX/6888A ANSI to 4 in. (101.6 mm) 300# ANSI                                                                                               |
| 3D39761G02                     |                                | Spool piece 12 in. (304.8 mm)                                                                                                                                   |

1. Cables are supplied with Exd Rated Glands; the cable is not Exd rated, and installation in a hazardous area is the responsibility of the installer/customer. Cables must be installed in accordance with national and local electrical codes.

**Table 16. Calibration Gas and Reference Air Accessories**

| Part number | Description                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------|
| 6A00252G02  | Manual calibration panel, includes reference air regulator and flowmeter, calibration gas flowmeter                     |
| 263C152G01  | Reference air regulator and flowmeter set                                                                               |
| 771B635H01  | Calibration gas flowmeter                                                                                               |
| 1A9919G01   | O <sub>2</sub> cal gas kit: contains 0.4% and 8.0% O <sub>2</sub> bottles, 550 L each (requires two CGA 590 regulators) |
| 1A9919G02   | O <sub>2</sub> cal gas regulators kit: contains two CGA 590 regulators                                                  |
| 1A9911G03   | Wall bracket kit for two O <sub>2</sub> gas bottles                                                                     |

**Table 17. Rosemount 6888 Xi Accessories**

| Part number | Description                            |
|-------------|----------------------------------------|
| 6P00285H01  | Xi/6888Xi panel gasket                 |
| 6A00237H33  | Xi/6888Xi panel mount hardware         |
| 6A00237H24  | Xi/6888Xi pipe and wall mount hardware |

## Global Headquarters

### Emerson Automation Solutions

6021 Innovation Blvd.

Shakopee, MN 55379, USA

+1 800 999 9307 or +1 952 906 8888

+1 952 949 7001

Gas.CSC@Emerson.com

## North America Regional Office

### Emerson Automation Solutions

8200 Market Blvd.

Chanhassen, MN 55317, USA

+1 800 999 9307 or +1 952 906 8888

+1 952 949 7001

RFQ-NA.RCCRFQ@Emerson.com

## Latin America Regional Office

### Emerson Automation Solutions

1300 Concord Terrace, Suite 400

Sunrise, FL 33323, USA

+1 954 846 5030

+1 952 846 5121

RFQ.RMD-RCC@Emerson.com

## Europe Regional Office

### Emerson Automation Solutions Europe GmbH

Neuhofstrasse 19a P.O. Box 1046

CH 6340 Baar

Switzerland

+1 954 846 5030

+1 952 846 5121

RFQ.RMD-RCC@Emerson.com

## Asia Pacific Regional Office

### Emerson Automation Solutions

1 Pandan Crescent

Singapore 128461

+65 6777 8211

+65 6777 0947

Enquiries@AP.Emerson.com

## Middle East and Africa Regional Office

### Emerson Automation Solutions

Emerson FZE P.O. Box 17033

Jebel Ali Free Zone - South 2

+971 4 8118100

+971 4 88665465

RFQ.RMTMEA@Emerson.com



Analyticexpert.com



Linkedin.com/company/Emerson-Automation-Solutions



Twitter.com/Rosemount\_News



Facebook.com/Rosemount



Youtube.com/user/RosemountMeasurement



Google.com/+RosemountMeasurement

The Emerson logo is a trademark and service mark of Emerson Electric Co.  
Rosemount and Rosemount logotype are trademarks of Emerson.  
All other marks are the property of their respective owners.  
© 2017 Emerson. All rights reserved.