

Enhanced Performance Level Sensing Elements

■ **Enhanced Performance.**

The insulated 4200L-series provides enhanced performance from high gain output generated by thin wall insulation construction. These probes are recommended for use in applications which tend to form a conductive coating on the electrode surface. Effects on the measurement caused by this condition are greatly reduced.

■ **Extruded Thin Wall Insulation Construction.**

The extruded, thin wall insulation ensures a snug fit on the sensing electrode, minimizing air encapsulation and variation in capacitance.

■ **Safe, Captive Sensing Element.**

The sensing element is held captive in the entrance gland to prevent it from becoming a projectile when used in a pressurized vessel.

■ **Chemically - resistant Wetted Materials.**

Wetted parts of 316 stainless steel and PFA Teflon® are standard materials of construction. Other materials are available.

■ **Sheath Option.**

For applications in which the level probe is mounted in a nozzle or pipe extension, a sheath is offered. The sheath, located below the 3/4-inch NPT installation fitting, renders that portion of the probe length inactive.

■ **Optional Ground Wire or Ground Rod.**

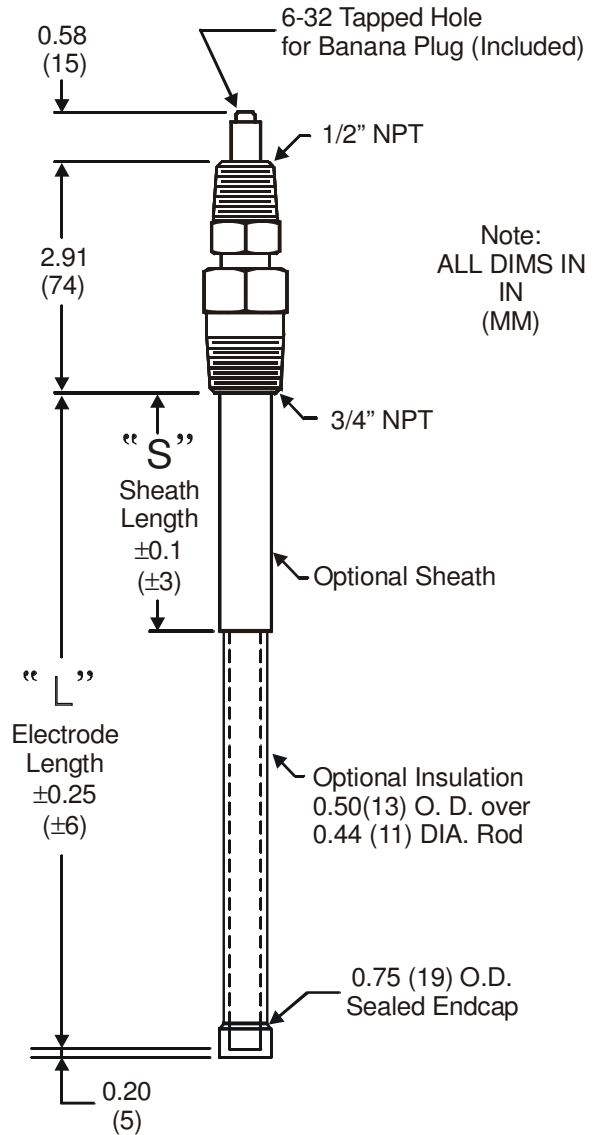
A spiral-wrapped wire or a solid rod, in a choice of materials, is available for applications requiring a grounded level probe.

■ **Flange, cooling Gland, and Custom Bend Options.**

To accommodate your installation requirements, these probes may be ordered with a flange.

■ **Specifications**

Wetted Material.....	316 SS and PFA Teflon® or – other materials
Max. Temperature.....	PFA Teflon®: 450°F(232°C)
Max. Pressure.....	PFA Teflon® 1000 psig at 150°F (68 bar at 65.5°C); derated to 0 psig at 350°F (0 bar at 176.6°C)
Gland Capacitance.....	38pF (for PFA Teflon®)
Max. Standard Length.....	19.5 feet (5.9 m)
Electrode Diameter.....	1/2 inch (13 mm)



Ordering Information

MODEL NUMBER 42	Enhanced performance insulated level sensing elements consist of ½ inch (13 mm) diameter electrode.
WETTED METAL PARTS MATERIAL 0	316 Stainless steel
1	Hastalloy 'C'
INSULATION MATERIAL 4L	PFA Teflon [®]

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42	4L	–	Product Number (specify length of sensor in mm)
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Choose one from each category.

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Ordering Notes:

1. Specify plastic-faced flange material to be the same as the insulation material. Plastic-faced flanges include a gland welded to the flange.
2. The ground rod requires a minimum 3 inch bare-faced flange. The ground rod cannot be provided on a plastic-faced flange.
3. If optional sheath is required, specify the sheath length in whole inches (dimension "S" on front page drawing)