

*Instrumentation designed
with the user in mind.*



NULL-KOTE™ Analog RF Level Transmitter

Setting new standards for accuracy, coating immunity, and output signal stability

Features

Widest Range of Applications – the ideal analog level transmitter. It can be field configured to handle virtually all process materials. If your requirements change, the L3610 is easy to re-configure or re-range in the field.

High Sensitivity and Stability – For critical low response applications.

NULL-KOTE™ Circuitry – Makes the sensor immune to adverse effects of conductive coating build up.

Designed to Survive – RF immune, vibration-proof, and conformal coated (tropicalized) circuit boards for additional protection – at no extra cost.

Ten-Year Warranty – The only level instruments available with this unique assurance of quality.

Wide Temperature Range – Standard process temperature range: -300 to + 500 F (-184 to + 260 C)

Factory Precalibrated – Field calibration, if needed, is quick and easy. No interaction between span and zero.

Easy to Install – Probe and electronics install as single unit. No cable, delicate connectors, or separate enclosure.

Built-In Self Diagnostics – provides assurance that the system is working properly.

Easy-On Probe Connection – Automatically provides simple, fast installation and reliable operation without wires, connectors, or terminal strips. Simply screw probe into the housing.

Modular Design – Allows easy troubleshooting and repair.

Factory Mutual System Approval – Class I, II, III, Div.1, Groups C, D, E, F, & G/NEMA 4X

Description

PRINCO's L3610 NULL-KOTE™ Analog RF transmitter can be field configured to measure the level of virtually any process material, from electrically insulated products, such as refined oils, to conductive slurries – even viscous materials that cling to the probe.

Advanced NULL-KOTE™ circuitry assures accurate readings even when conductive materials build up on the probe.

Superior temperature stability and noise immunity, conformal coated circuit boards, self-diagnostics and pre-calibration provides for accurate, reliable, and easy-to-install level instrumentation.

Our Easy-On probe gives you reliable, automatic connection when the probe is screwed into the electronics housing.

A complete selection of FM approved systems can be assembled using the L100 series probes illustrated on PRINCO's FM Probe Data Sheet #9501.

Today's processing plants must operate at peak efficiency, minimize labor and material costs, insure on-time delivery of product and eliminate spills of even marginally hazardous materials.

Accurate, reliable, continuous level measurement is a vital part of their operation.

In millions of installations, spanning 85 years of experience, PRINCO process instruments have provided accurate, dependable, long lived service for all types of industries.

The only

**10 Year
Warranty**

The longest in the industry!

L3610 Specifications

Type

Self-diagnostic, NULL-KOTE™, RF Impedance sensing, level to current transmitter.

Span Range

From 20 pF to 50,000 pF.
Probe lengths from 1 inch to 200 feet, depending upon application.

Output Signal

4 to 20 mA dc.

Power Requirements

Standard Models:
95/135 VAC, 50-60 HZ, 5 Watts
22/27 VDC, 2.2 Watts
Optional Model: 230 VAC

Operating Temperature Range

-30 to 150°F (-34 to 66°C)

Temperature Stability

±0.015% per 1°F

Linearity/Accuracy

±0.5% typical

Repeatability

±0.1%

Remote Mounting

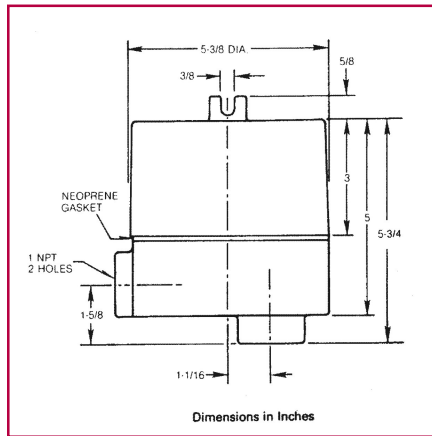
Consult factory.

Electronics Housing

Explosion-proof Class I, II, III, Div. 1, Groups C, D, E, F, & G
NEMA 4X

Agency Approval

Factory Mutual Research Corporation System Approved.
See table below.



NOTE:

Explosion-proof cases must be installed to satisfy National Electrical Code, Section 501, and applicable local codes.

Probes

Probes used with the L3610 are designated as the L100 Series.

A variety of types and construction materials are available: flexible (cable type) or rigid, heavy or light duty Teflon™ or Kynar™ sheathing, NPT hub or flanged mounted, single or dual construction.

All probes are manufactured to the exact length required.

Operating Temperature Range

-300 to 500°F (-184 to 260°C)

FM APPROVED PROBES FOR L3610

Model	Mtg.	Sheathing	Model	Mtg.	Sheathing
L101	1" NPT	B TS TP	L161	3/4" NPT	B TS TP KS KP
L102	2" x 150 lb. Fl.	B TS TP	L162	1-1/2" NPT	B TS TP KS KP
L120	3" x 150 lb. Fl.	B TS TP	L167	1" NPT	B TS TP KS KP
L124	3" x 150 lb. Fl.	B TS TP	L180	2" x 150 lb. Fl.	B TS TP KS KP
L127	3" x 150 lb. Fl.	B TS TP	L184	3" x 150 lb. Fl.	B TS TP KS KP
L128	3" x 150 lb. Fl.	B TS TP	L187	3" x 150 lb. Fl.	B TS TP KS KP
			L188	3" x 150 lb. Fl.	B TS TP KS KP

B=Bare TS=Teflon Sheathed TP=Teflon Pipe KS=Kynar Sheathed KP=Kynar Pipe

For additional information on FM Approved probes, see PRINCO Data Sheet 9501.

For other probes, refer to PRINCO Continuous Probe Selection Bulletin.

10-YEAR WARRANTY

All PRINCO level control instruments are backed by a 10-year warranty. PRINCO will repair or replace, at our option, any instrument that fails under normal use for up to 10 years after purchase.

PRINCO

PRINCO INSTRUMENTS, INC.
1020 Industrial Highway
Southampton, PA 18966-4095, U.S.A.
(215) 355-1500 ~ FAX (215) 355-7766
800-221-9237

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