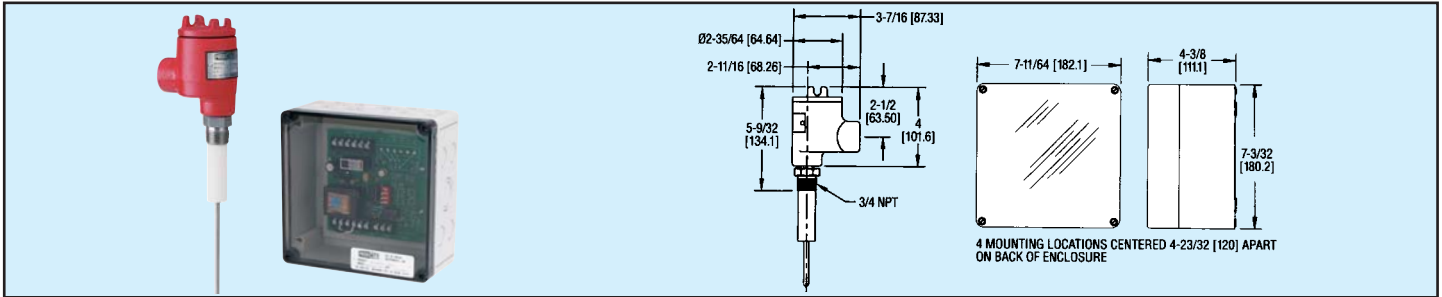




Series
RF

Level Control

Radio Frequency Sensing for Liquids and Solids, Remote High/Low Control



Series RF Level Controls employ radio frequency technology to precisely monitor the level of almost any liquid or solid. Probes are unaffected by product build-up, even with problem materials like latex paint, which can quickly disable most mechanical controls. Each unit is quickly and easily calibrated in the field for the unique dielectric constant characteristics of the specific product being controlled. No moving parts means years of dependable service. A complete system requires a sensing probe and separate control box.

MODELS

	Model No.	Description
Single Probe	RF101	316 SS probe, 12" length x 1/4" dia.
	RF102	316 SS probe, 24" length x 1/4" dia.
	RF105	316 SS probe, 60" length, 1/4" dia.
	RF301	Teflon® coated probe, 12" length x 1/4" dia.
Control Box	RFC1	Single probe control
	RFC2	Dual probe control

Note - Order two single probes for dual probe configuration.

A-630, 4"x3/4" NPT, 125 lb. Cast iron flange for quick, convenient mounting of standard RF probes.

SPECIFICATIONS

Service: Compatible liquids.

Wetted Materials:

Connection: 316 SS.

Probe: 316 SS or Teflon®.

Insulator: Teflon®.

Temperature Limits: Probe: -40

to 250°F (-40 to 121°C), Control

Box: -10 to 160°F (-23 to 71°C).

Pressure Limit: 100 psig (6.89

bar). Optional 1000 psi (68.9 bar).

Enclosure Rating: Probe:

Weatherproof and explosion-proof,

NEMA 4, 7, 9. Class I, Div. 1 & 2,

Groups C & D; Class II, Div. 1 & 2,

Groups E, F, and G. Control Box:

Weatherproof, NEMA 4X.

Switch Type: DPDT form C

contact.

Electrical Rating: 2A @ 115 VAC.

Power Requirements: 110/120

VAC, 50/60 Hz; 220 VAC; 24 VDC.

Current Consumption: 5 VA.

Electrical Connections: Screw

terminal.

Conduit Connection: Probe: 3/4"

female NPT. Control Box: Pg16, 21

and 29 punch-outs.

Process Connection: 3/4" male

NPT.

Mounting Orientation: 316 SS

probe can only be vertically

mounted. Teflon® covered probe

can be vertically or horizontally

mounted.

Set Point Adjustment: Trips when

product touches the probe. Field

trim the probe to desired trip point.

Weight: 12" Probe: 3.4 lb (1.54 kg).

Control Box: 1.8 lb (0.82 kg).

Time Delay: Selectable to: Off, 0

to 30 seconds up to 15 seconds to

2 hours.

Options: Probes up to 25 ft (7.62

m), 7/8" diameter probe for

materials with a dielectric constant

below 20, 1000 psi (68.9 bar)

pressure rating.

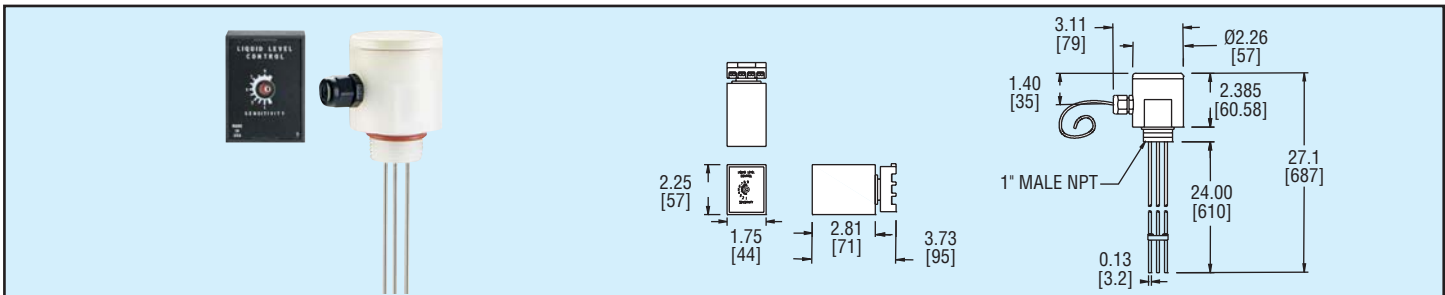
Level



Model
DPL110

Dual Point Level Switch

Tank High/Low Control, Conductivity Technology, Up to 72" Probes



Maintain liquid level high and low limits with the Model DPL Dual Point Level Switch. Units can be used for single or dual point level control in semi-solid liquids, industrial slurries or heavy-bodied liquids like wastewater. Standard 24 inch electrodes can be cut by the end-user to a shorter length or lengthened by adding up to two 24 inch extensions (sold separately) to reach the maximum recommended length of 72 inches. Model DPL contains no moving parts to get stuck or wear out. Controller features adjustable sensitivity and DIN rail-mountable socket mount.

SPECIFICATIONS

Electrodes: 1/8" dia, 24" (609.6 mm) length, standard.

Wetted Materials: 316 SS, polypropylene.

Mounting, Sensor Head: 1" male NPT.

Pressure Limits: 30 psig (2.06 bar).

Temperature Limits: 212°F (100°C).

Probe Enclosure: NEMA 6 (IP67).

Maximum Probe Length: 72" (1.8 m) with optional extensions.

Connecting Cable, Probe to Controller: 10 ft (3.0 m).

Sensing Voltage: 12 VAC.

Power Supply: 120 VAC 50/60 Hz.

Output: SPDT, 5 A @ 240 VAC.

Mounting, Controller: Standard octal socket or 35 mm DIN rail.

Weight, Probe Assembly: 1.5 lbs (0.68 kg).

Weight, Controller: 1.0 lb (0.45 kg).

Model DPL110 Dual Point Level Switch

ACCESSORIES

Model DPL5 Electrode Extensions includes two 249 (610 mm) electrode extensions and mounting hardware