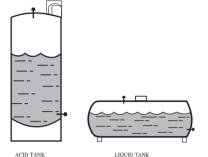
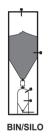
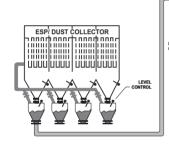
TYPICAL APPLICATION

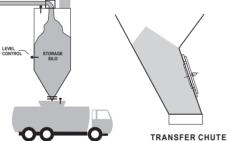


FLY ASH SALT CEMENT SILICONE CARBIDE UREA COALTAR LIME PIGMENTS SODA ASH BAUXITE COAL POWDER FRUIT PULP COAL LUMP IRON ORE ALUMNA IRON CHROMATE WHEAT &OTHER FOOD SODIUM NITRATE GRAINS KAOLIN CLAY DETERGENTS

ZINC OXIDE TALC STRACH POLYSTER SEWAGE SLUDGE PLASTIC PELLETS SLURRIES PVC RESIN CLAY GLASS BATCH ACIDS CARBON BLACK ALUMINUM OXIDE SILICA S AND LEAD OXIDE OILS GLASS CUTLET SILICA FLOUR BORAX SUGAR AND MANY MORE







ELECTRONIC UNIT SPECIFICATIONS:

- * Circuitry : Solid State
- Supply voltage: 240 / 220/110/24 VAC 50/60 Hz.
 or 24VDC (as Specified)
- Output: SPDT/DP DT (Specify)- Relay output, Rated 6 Amps @ 240 VAC 0.5Amps @ 24VDC/22C/110VDC
- Calibration: Only one calibration adjustment.
- Fail safe: To high or low level
- Local Indication : LED- Normal, Alarm, Probe Healthy
- Electronic :Integral/ Remote(from probe upto 100 meters)
- Enclosure : IP-66 Protection (Flameproof optional)

EIP ENVIRO LEVEL CONTROLS PVT. LTD.

B-45, SECTOR-8, NOIDA-201301, (INDIA) Tel. No.: 91-120-2421831,2421832 & 4243333

Fax No.: 91-120-2421833

Email: rgoyal@eipenviroindia.com Website: www.eipenviroindia.com

PROBE SPECIFICATION

- Internal materials: Stainless steel with PTFE or Ceramic
- * Enclosure : IP-66 / 67 Protection.
- Vessel temperature : To customer specification
- Insertion Length: To suit application requirement
- * Process Connection : As specify
- No electronics at probe & No moving parts









RF LEVEL SENSOR FOR SOLIDS AND LIQUIDS MODEL- 550

RF LEVEL SENSORS FOR BULK SOLIDS & LIQUIDS

GENERAL APPLICATION

EIP Level Sensors designed to provide accurate and reliable level information of Solids (Powder & Lumps), Liquids and Slurry applications for point level detection In storage Bins, Silos, Hoppers, Tanks, Chutes and any other vessels / tanks where meterial is stored, processed and discharged even at high temperature / Pressure/ corrosive applications.

COATING

A buildup is not uncommon with a coating on objects protruding into the vessel / tank. A conventional lavel controls would sense the build-up and record false signals. EIP Level Sensors are designed to ignore any build-up of coating on the probe or vessel / tank walls.

AMBIENT CONDITION

EIP standard Level Sensor probes are rated to 250° C. ambient temperature of material and special high temperature probes are rated to 600° C. Electronic Unit is tested at -25° C to + 70° C. ambient temperature. The electronic unit and sensing probe housing is designed and tested for outdoor duty for highly dusty area. Environmental tests conducted on RF Level Sensors as per Indian and International standards.

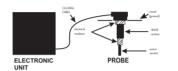
PRESSURE

EIP standard sensing probes are rated with a pressure rating of 100 psi. Higher pressure rated probes are also supplied as specified.

HOW EIP LEVEL SENSORS WORKS

DESCRIPTION

EIP Point level sensor includes an electronic unit and a sensing probe, connected by a co-axial cable. The electronic unit consist of an oscillators, a detector and output relay which is controlled by the detector. The probe do not contain electronics or any other sensing element only terminals are provided to connect the signal cable. The probe contains an active section and shield section insulated from each other and from the vessel ground as shown.

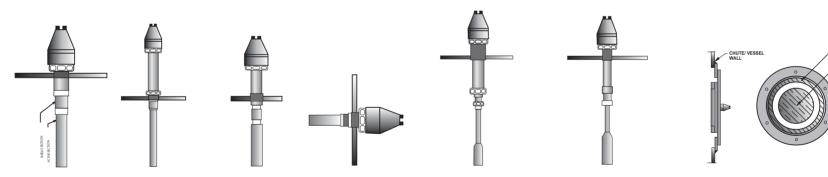


FUNCTION

The oscillator generates low-power RF signal which is used to provide signals equal in frequency, phase and amplitude to both, active section and shield section of the probe. The signal applied to the shield is held constant by use of a compensating amplifier. The detector is then used to compare the fixed signal with active signal which varies with the change of media between the probe and Vessel/Hopper wall. Difference in the signals compared by the detector cause the output relay to activate. The contacts of the output relay to when activated are used to indicate the presence or absence of material in the vessel /Hopper at the probe level.

SHIELD SECTION

- ACTIVE SECTION



PROBE MODEL :	PR - 550 RT ST	PR - 550 ESP	PR- 550 HT	PR- 550 RT BE	PR - 550 FLX ST	PR - 550 FLX HP	PR - 550 FLSH
APPLICATION:	LIQUIDS OR SOLIDS	ESP HOPPER-INSULATED VESSEL	SOLIDS (POWDER/LUMP)	SMALL VESSEL BUCKET EVEVATOR, ASH TRANSMITTER/AIR LOCK VESSEL	HIGH LEVEL SENSING (UPTO 400 MM LUMP SIZE)	PRESSURE VESSEL, SMALL VESSEL, MATERIAL PRESENCE DETECTION ON CONVEYOR	LOW OR HIGH LEVEL SENSING IN VESSELS, MATERIAL PRESENCE DETECTION IN PNEUMATIC OR SCREW CONVEYORS, CHUTE BLOCKAGE DETECTION (UPTO 400 MM LUMP SIZE
PROCESS TEMPERATURE :	250 °C	250 °C,600 °C (SPECIFY)	400 °C,600 °C (SPECIFY)	250 C,600 C (SPECIFY)	250°C,600°C(SPECIFY)	250°C,600°C(SPECIFY)	250 °C,600 °C(SPECIFY)
VESSEL PRESSURE :	5,10 BAR (SPECIFY)	5,10 BAR (SPECIFY)	1 BAR (SPECIFY)	5,10 BAR (SPECIFY)	3 BAR (SPECIFY)	3 BAR (SPECIFY)	1 (SPECIFY)
INSERTION LENGTH:	AS REQUIRED	AS REQUIRED	AS REQUIRED	50 TO 800 MM	MIN-300MM MAX-12MTRS. (SPECIFY) SELECT PROBE LENGTH CONSIDERING REPOSE AND DISTANCE FROM FILL POINT	MIN-250MM MAX- 3MTRS.	ZERO "0" INSERTION OR SMM MAX LINING OR NON-CONDUCTIVE MATERIAL LIKE REFRACTORY OR RUBBER ETC. CAN COVER THE PROBE, IF REQUIRED
MOUNTING:	SIDE OR TOP	SIDE OR TOP	SIDE OR TOP	SIDE OR TOP	TOP VERTICAL +/- 5	SIDE OR TOP	SIDE FOR VESSELS, TOP OR SIDE FOR CHUTE BLOCKAGE DETECTION, TOP OR SIDE FOR MATERIAL PRESENCE DETECTION IN PNEUMATIC OR SCREW CONVEYORS
PROCESS CONNECTION:	20 OR 40NB THREAD OR FLANGE AS REQUIRED	20 OR 40NB THREAD OR FLANGEAS REQUIRED	40NB THREAD OR FLANGEAS REQUIRED	40NB THREAD OR FLANGEAS REQUIRED	40NB THREAD OR FLANGE AS REQUIRED	40NB THREAD OR FLANGE AS REQUIRED	FLANGE
INGRESS PROTECTION:	IP 66 / 67	IP 66 / 67	IP 66 / 67	IP 66 / 67	IP 66 / 67	IP 66 / 67	IP 66 / 67
ELECTRONICS	REMOTE/INTEGRAL	REMOTE/INTEGRAL	REMOTE/INTEGRAL	REMOTE/INTEGRAL	REMOTE/INTEGRAL	REMOTE/INTEGRAL	REMOTE/INTEGRAL
CABLE CONNECTION	1/2"ET CABLE GLAND	1/2"ET CABLE GLAND	1/2"ET CABLE GLAND	1/2"ET CABLE GLAND	1/2"ET CABLE GLAND	1/2"ET CABLE GLAND	1/2"ET CABLE GLAND
CABLE FROM PROBE TO ELETRONICS	R F COAXIAL CABLE	R F COAXIAL CABLE	R F COAXIAL CABLE	R F COAXIAL CABLE	R F COAXIAL CABLE	R F COAXIAL CABLE	R F COAXIAL CABLE
COMPATIBLE ELECTRONICS	EU -550	EU -550	EU-550	EU -550	EU -550	EU -550	EU -550
INSTALLATION	AS PER EIP'S INSTALLATION TIPS	AS PER EIP'S INSTALLATION TIPS	AS PER EIP'S INSTALLATION TIPS	AS PER EIP'S INSTALLATION TIPS	AS PER EIP'S INSTALLATION TIPS	AS PER EIP'S INSTALLATION TIPS	AS PER EIP'S INSTALLATION TIPS