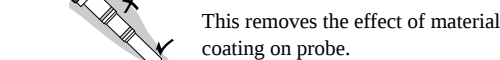
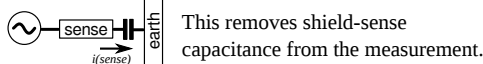
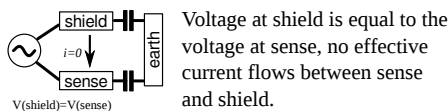
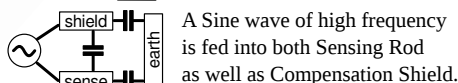
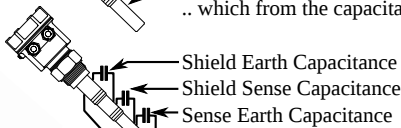
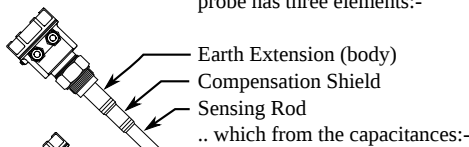


Admittance Level Switch for Solids & Powders



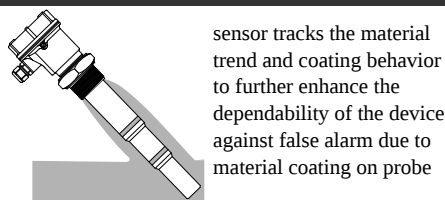
Operating Principle

The three elements of Admittance probe has three elements:-

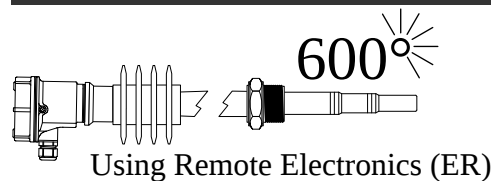


Material is detected by measuring sense-earth capacitance.

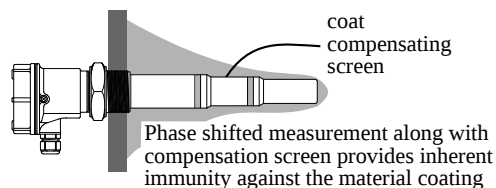
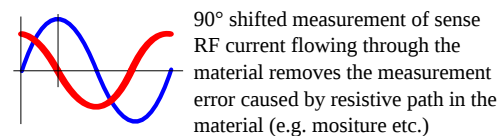
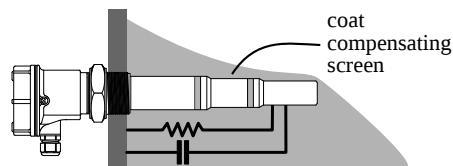
Trend Analyzing Algorithm



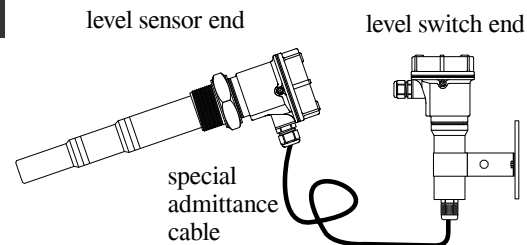
High Temperature Probes



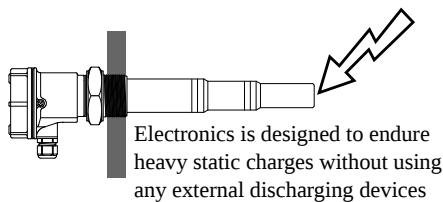
Tru-Admittance Measurement



Remote Electronics



Static Charge Safe



Compact Size

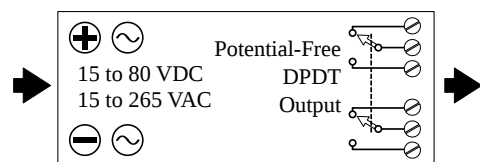
Durable Construction

Easy Installation

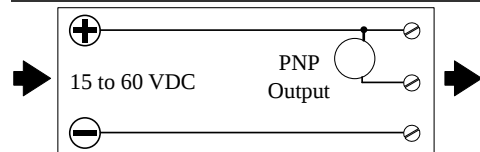
Order Code

- LSY Admittance Level Switch for Solids
 - Hxx Enclosure: HAN: Aluminum Non-Hazardous IP-65/68, HAX: Aluminum Flameproof Iia, Iib and Iic, HSN: Stainless steel, HES: Specially designed enclosure as per customer requirement
 - Tx Material Temperature (T1: max 100°C, T2: max 200°C, T3: max 250°C, T4: max 600°C, TS: Specially designed)
 - Rx Sensor rigid/flexible type, RD : Rigid Rod Sensor, RP : Flexible Rope Sensor, RS : Specially designed sensor
 - Sx Sensing Rod/Rope Material (S4: SS-304, S6:SS-316, SL, SS-316L, SS: Special material)
 - Ix Insulation type : IP: Partly PTFE insulated, IT: Full PTFE insulated, IC: Partly ceramic insulated,
 - Gx Sensor Extension Material (G4: SS-304, G6: SS-316, GL: SS-316-L, GS: special material)
 - Px Process Connection Type (PFL: Flanged Type – description of flange - FL -at the end of order code) (PB1: BSP 1", PB2: BSP 1½", PB4: BSP 1¼", PB5: BSP2") (PN1: NPT 1", PN2: NPT 1½", PN4: NPT 1¼", PN5: NPT2") (PT1: Triclover/Triclamp 1.1½", PT2: Triclover/Triclamp 2") (PCS: Special Process Connection)
 - Cx Process Connection Material : (C4: SS-304, C6: SS-316, CL: SS-316L, CS: Special material)
- Electronic Power Supply and Outputs:-
- EIUD Integral Electronics with Universal supply (15-80V DC & 15-260V AC) & 1 DPDT potential-free relay output
 - EIDP Integral Electronics with DC power supply (15-80V DC) & one short circuit safe PNP output
 - EIDL Integral Electronics with Two wire DC supply with 8/16mA current output suitable for 4-20mA analog inputs
 - EIFS Integral Electronics Specially designed with special output
 - ERUD Remote Electronics with Universal supply (15-80V DC & 15-260V AC) & 1 DPDT potential-free relay output with 10 meter special admittance cable.
 - ERFS Specially Designed Remote Electronics
 - Lxxxx Insertion length (100mm to 3000mm)
 - FLxx Flange type and bore size specified for ASA/ANSI/JIS/DIN/Custom

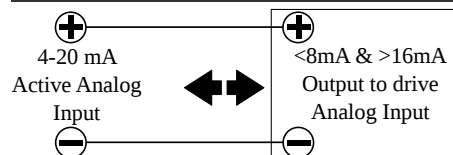
Universal In DPDT Output



PNP with DC Supply



Two wire 8/16 mA Signal



Technical Specification

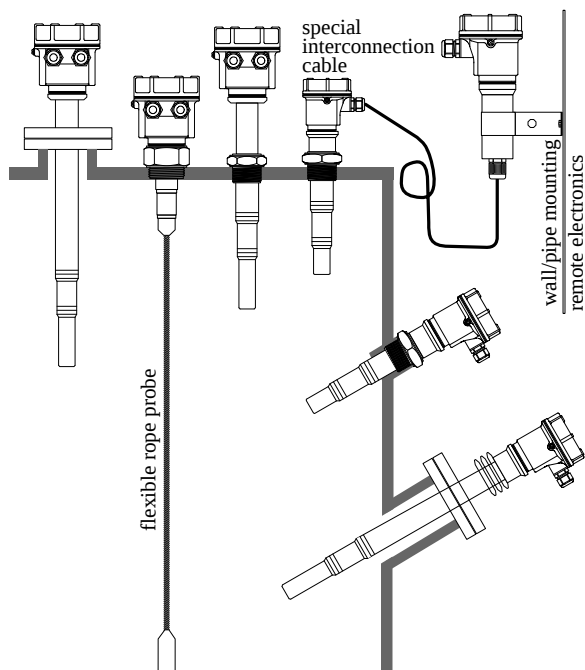
Features

1. Fast Switching Response 2 sec
2. High temperature endurable probes
3. 90° Phase shifted admittance measurement
4. Easy calibration with or without material
5. Remote electronics with std 10 meters cable length
6. Electrostatic discharge protected electronics
7. Tropicalized & potted electronics module
8. Threaded & Flanged Mountings
9. Electronic Inserts support all requirements
10. Ingress protection : IP 68/66 (as per IS-13947)
11. Ex-proof (Ex d T6 IP-66 IIC)
 - Flameproof as per IS/IEC 60079-1:2007
 - Weatherproof (IP-66) as per IS/IEC 60529:2001
 - Suitable for Gas Group : IIC
 - Suitable for Zone 1 & 2 atmospheres
12. Compact size
13. Vibration complied as per IEC 60068 part 2-6
14. Low power consumption
15. Active shield compensation against material build-up

Applications

1. Suitable for all sticky/non-sticky bulk solids & liquids
2. Suitable for side as well as top mounting
3. Minimum and maximum failsafe field selectable
4. Process temperature max 600°C (ceramic insulation)
5. Process pressure max. 15 bar

Typical Mountings



Specifications

| | |
|---|--|
| EIUD / ERUD Supply & Output | Integral / Remote Electronics DPDT Output Universal Power Supply, DPDT Relay Output 15 to 80 VDC and 15 to 260 VAC 50/60Hz Potential Free DPDT Relay Output 5 A each @ 24VDC or 220VAC |
| Relay Type | |
| EIDP / ERDP Supply & Output Output Limit | Integral / Remote Electronics for PNP Output 15 to 60 VDC, PNP 250mA max. Short Circuit Safe |
| Sensor Cable | Remote electronics require special admittance cable from probe to controller. 10 meter standard length more available on demand |
| Min. Dielectric Constant | 1.6 (non-hygroscopic) |
| Ambient Temp. | -20 °C ... 80 °C (-4 °F ... 176 °F) |
| Process Temp. | -20 °C ... 100 °C (-4 °F ... 212 °F) |
| Extended Process Temperature | PTFE Insulation: -30 °C ... 250 °C (-22 °F ... 482 °F) Ceramic Insulation: -30 °C ... 600 °C (-22 °F ... 1,112 °F) (extensions & heat sinks required) |
| Process Pressure | absolute / max. 15 bar (with PTFE insulation) absolute / max. 2.5 bar (with Ceramic insulation) |
| Wetted Parts | SS-304, SS 316, SS-316L, PTFE, part ceramic |
| Process Connection | NPT / BSP 1", 1¼", 1½", 2" etc Flanged : ANSI/JIS/DIN/ASA/custom |
| Vibration Test | As per IEC 60068 part 2-6 sinusoidal, 10-55Hz, 0.15mm |
| Probe Insertion Length: | |
| Rigid Rod | 50mm to 3,000mm |
| Flexible Rope | 100mm to 20,000mm |

Specifications are subject to change without prior notice