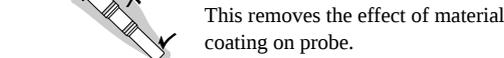
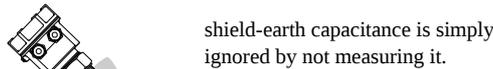
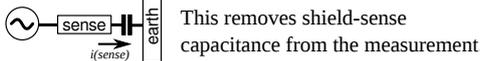
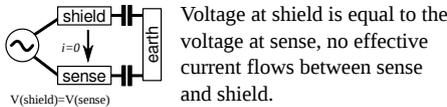
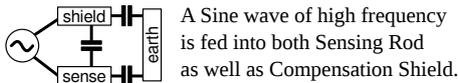
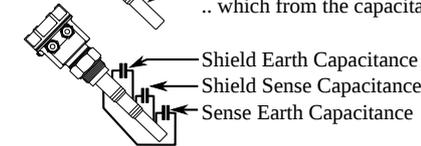
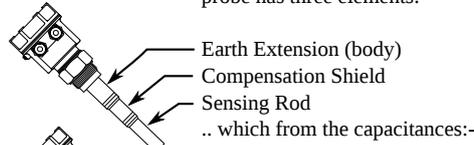


Admittance Level Switch for Solids & Powders



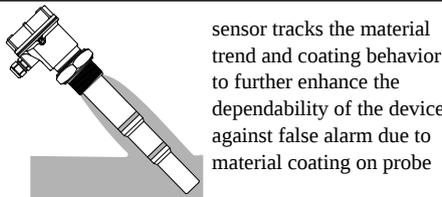
Operating Principle

The three elements of Admittance probe has three elements:-

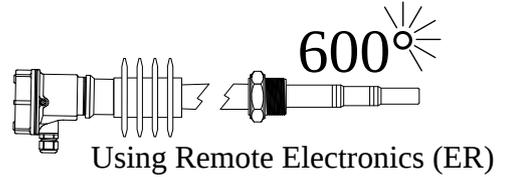


Material is detected by measuring sense-earth capacitance.

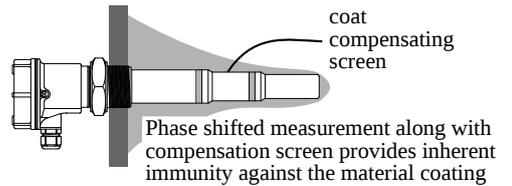
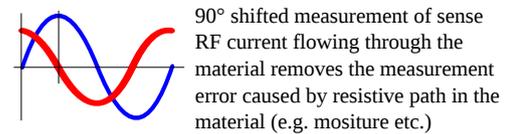
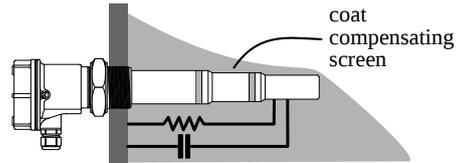
Trend Analyzing Algorithm



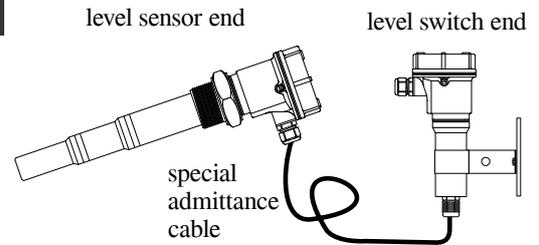
High Temperature Probes



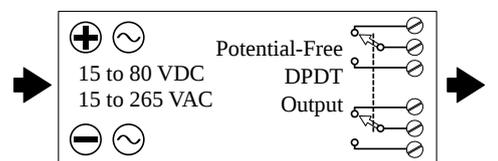
Tru-Admittance Measurement



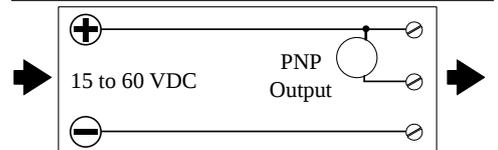
Remote Electronics



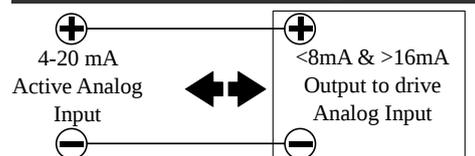
Universal In DPDT Output



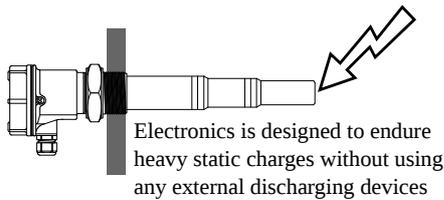
PNP with DC Supply



Two wire 8/16 mA Signal



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

Technical Specification

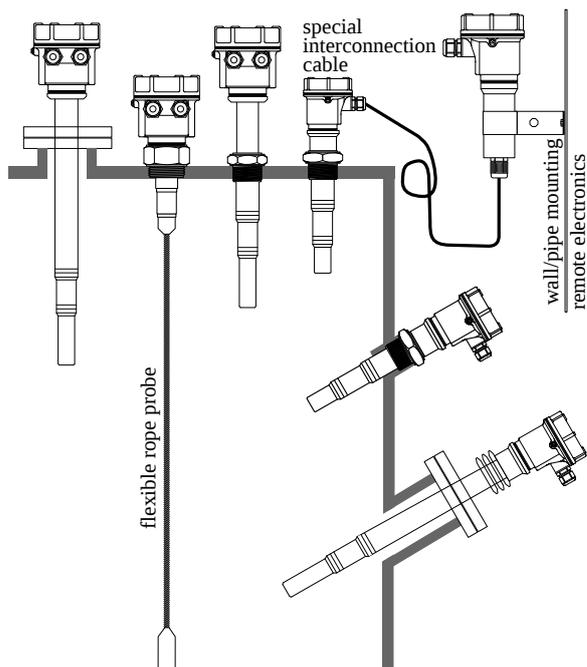
Features

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