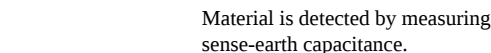
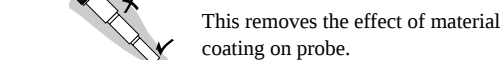
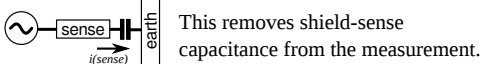
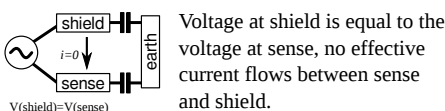
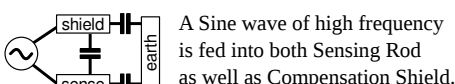
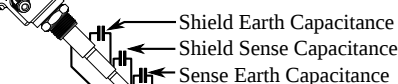
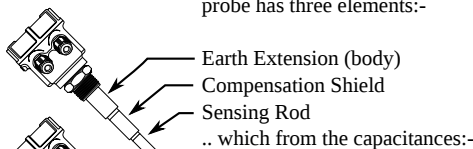


Admittance Level Switch for Solids & Powders

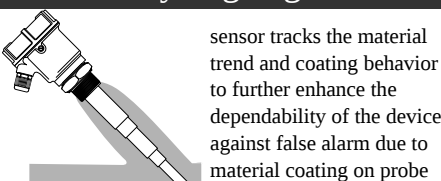


Operating Principle

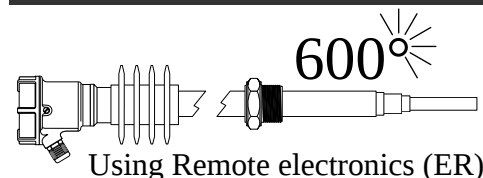
The three elements of Admittance probe has three elements:-



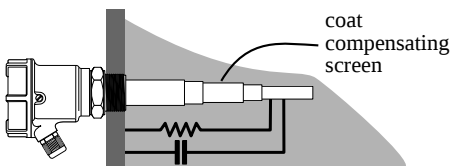
Trend Analyzing Algorithm



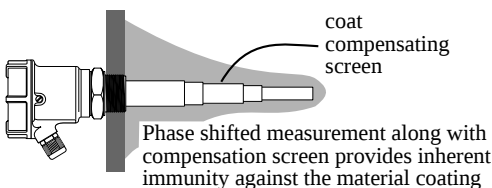
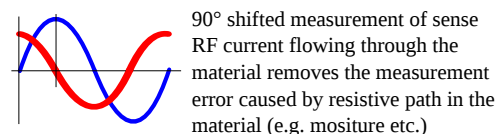
High Temperature Probes



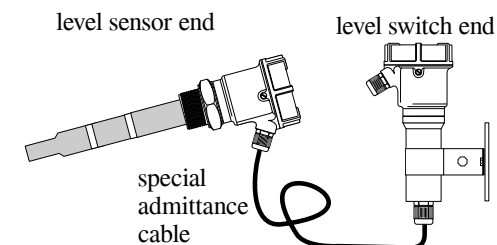
Tru-Admittance Measurement



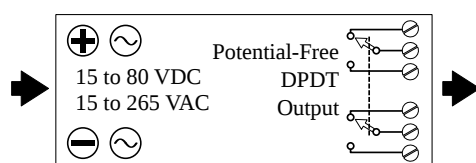
Bulk Material forms resistive path as well as capacitive path between sense and earth. The phase of current is 90° ahead in capacitor than that of voltage applied to it.



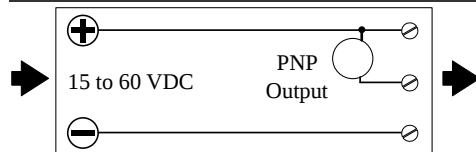
Remote Electronics



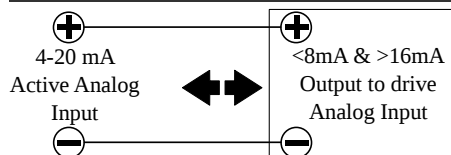
Universal In DPDT Output



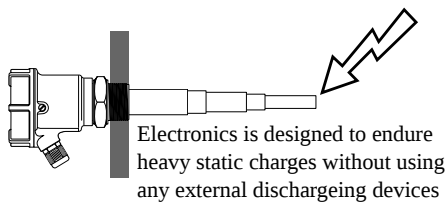
PNP with DC Supply



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

LSY: Admittance Level Switch for Solids & Powders

Features

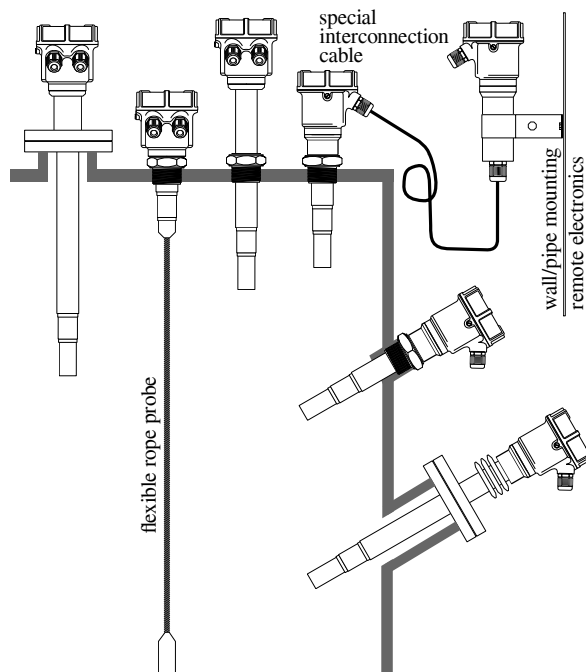
1. Fast Switching Response
2. High temperature endurable probes
3. 90° Phase shifted admittance measurement
4. Easy calibration with or without material
5. Remote electronics with std 10 meters cable length
6. Electrostatic discharge protected electronics
7. Threaded & Flanged Mountings
8. Electronic Inserts support all requirements
9. Ingress protection : IP 68/66 (as per IS-13947)
10. 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

Applications

Admittance type level limit switch used as a full, empty and demand alarm in silos, hopper, containers, containing bulks and powders of various types including the coat forming materials.

Typical applications: cement plants, power plants, ash handling systems, soap and detergent plants, chemical & fertilizer plants, paints & emulsions plants, etc.

Typical Mountings



Specifications

EIUD Supply & Output	Integral Electronics Universal Power Supply, DPDT Relay Output 15 to 80 VDC and 15 to 260 VAC 50/60Hz Potential Free DPDT Relay Output
Relay Rating	5 A each @ 24VDC or 220VAC
EIDL Supply & Output Output Limit	Integral Electronics for PNP Output 15 to 60 VDC, PNP 250mA max. Short Circuit Safe.
EIDL Supply & Output Output Limit	Integral Electronics 4-20mA Loop Powered Two Wire DC 8 / 16 mA 15 to 60 VDC 8mA (-1mA max) / 16mA (+1mA max)
ERUD Supply & Output	Integral Electronics Universal Power Supply, DPDT Relay Output 15 to 80 VDC and 15 to 260 VAC 50/60Hz Potential Free DPDT Relay Output
Relay Rating	5 A each @ 24VDC or 220VAC
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 ... 60 °C (-4 °F ... 140 °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
Probe Insertion Length:	
Rigid Rod	50mm to 3,000mm
Flexible Rope	100mm to 20,000mm

Specifications are subject to change without prior notice