



## LEVEL MEASUREMENT & CONTROL SOLUTIONS

### RF ADMITTANCE TYPE LEVEL SWITCH FOR FLY ASH 114 RFS

R.F. Admittance Type Level Switch series 114 RFS with coat-safe electrode has been specially designed for detecting level of fly ash in ESP hoppers and other high temperature duties for solids, where low dielectric produces a very small change in capacitance.

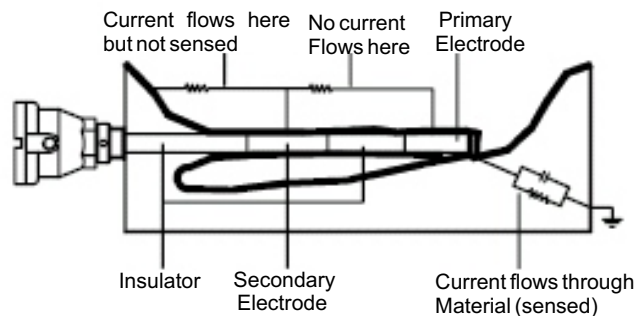
#### FEATURES

- Integral and remote mounting versions.
- Transducer moulded in epoxy for shock and corrosion resistance
- Sturdy electrode to withstand impact due to clinkers.
- Alumina insulated electrode capable of withstanding 300°C with High Temperature Stand Off (HTSO)

#### 'COAT-SAFE' PRINCIPLE

Electrode may not perform satisfactorily if the process material builds up on the probe to a significant degree. The 'coat-safe electrode' is designed to overcome this problem. In this type of electrode, in addition to the primary sensing electrode, a secondary 'coat-shield' electrode, insulated from ground & primary electrode is used. This electrode is driven with signal of equal phase & amplitude as primary electrode. Hence, when there is a coating / material buildup on electrode, no current flows between primary and secondary electrode. The electronic instrument measures the current that flows from primary electrode to ground. This ensures that buildup is ignored.

When the product level in the vessel rises & covers the primary electrode, it causes a current to flow which is sensed, causing the switch to operate.



NOTE : Protection shields are recommended and are In purchaser's scope.

#### LEVEL SWITCH

- Input : Voltage signal from transducer in probe head
- No. Of Set Points: One
- Relay contacts :  
2 C/O, 2A @ 230 VAC/28 VDC (resistive)
- Probe Failure Alarm (optional)
- Failsafe Features :  
Failsafe high or low (user selectable)



- Time delay : 0 - 200 sec adjustable
- Controls : Potentiometer to set : Level Alarm  
: Time Delay
- Ambient conditions :  
Temperature - 0 to 55°C  
Relative humidity - 95% max (non condensing)
- Cable entries : 1/2" NPT(F) or 3/4" UNF(F) (optional)  
Without Probe failure Alarm : 2 Nos .  
With Probe Failure Alarm : 3 Nos.
- Termination : Suitable for 1.5 mm<sup>2</sup> conductor size
- Cabling between Switch & Probe Head :  
3x1.5 mm<sup>2</sup> Cu. cable - Upto 100 mtrs
- Enclosure: Weatherproof, cast aluminium polyurethane painted, conforming to IP-65 as per IS:13947 suitable for surface / Pipe Mounting.

#### PROBE HEAD

- Enclosure :  
Weatherproof, cast aluminium polyurethane painted, conforming to IP-65
- Cable entry :  
1 No., 1/2" NPT or 3/4"(optional)
- High Temperature Stand Off (HTSO) :  
350 mm in MS with SINDANO flange

#### TRANSDUCER

- Operating voltage :  
12 VDC from switch
- Operating frequency :  
450 KHz
- Termination :  
Suitable for 1.5 mm<sup>2</sup> conductor size

