LEVEL CONTROL OF LIQUID, SOLIDS AND SLURRIES

[redacted] has RADIO FREQUENCY BASED LEVEL SWITCH TRLS in their product range.These switches provide reliable & accurate point level detection of solid (Powder & Lumps),liquid, and slurry in store bins , silos, hoppers,tanks,chutes and any other vessels,where materials is stored, processed and discharged even at high temperature / Pressure / corrosive application.
These switches are unaffected by :

1. Coating and accumulation of material in sensor.
2. High temperature and pressure of material in process.
3. In transit material, suspended particals,particles size,material composition etc.

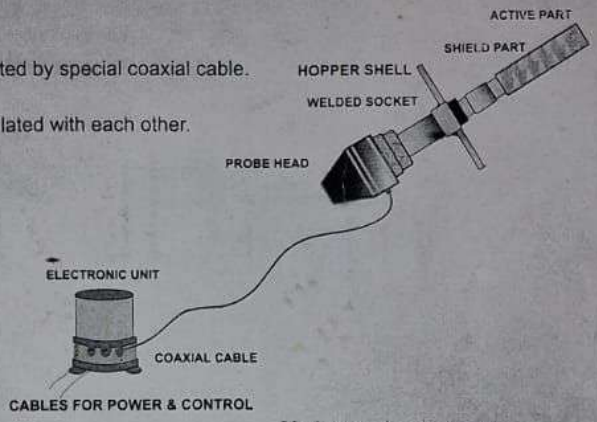
SYSTEM DESCRIPTION :

Model TRLS has two parts .:

(A) Sensing probe : Rigid / Flexible .

(B) Electronic Unit : Solid state, Circuitry and they are connected by special coaxial cable.

Sensing probe has two parts : Active part & Shielded part insulated with each other.
We give below diagram illustrating the above parts :



TECHNICAL SPECIFICATION :

(A) SENSING PROBE :

1. Application	: Solid / Liqid.
2. Particle Size	: Dust to 10 mm.
3. Process Temp.	: 0 to 1000 deg. C.
4. Insertion Length	: 100 mm or specified.
5. Process Connection	: Flange or Socket.
6. Ingress Protection	: IP 66
7. Cable Connection	: 1/2" ET Gland
8. Probe Head	: Cast Alluminum
9. Insulation	: Ceramic / Teflon.

(B) ELECTRONIC UNIT :

1. Power Supply	: 100 / 220 V Ac / 24 V Dc.
2. DPDT Relay	: Out put rated 5 amps.
3. Indication	: LED (R B G)
4. Cable	: Remote from probe
5. Ingress Protectioin	: IP 66

Various Application

Sponge Iron	Iron ore	Coal	Water
Fly Ash	Acid	Alkali	Coulter
Cement	oil	Slurries	Soda
Plastics	Tea leaves	Fertilizer	Ceramic
Toothpaste	Glass Batch	Chemical	Pigment
Foodgrain	Sinter	Napthalene	Milk

And many more....

SENSING PROBE MODLES

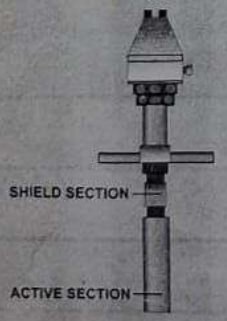


FIG .2 TRLS: 200HT.
FOR HIGH TEMPRATURE

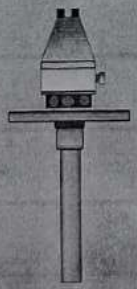
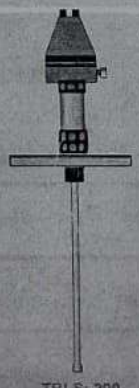
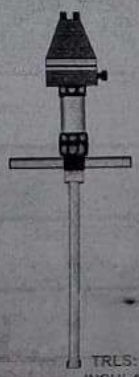


FIG .3 TRLS: 200STD.
FOR STANDARD APPLICATIION



TRLS: 200
FLEXIBLE
FIG .4
FOR SOLID / LIQUID



TRLS: 200
INSULATED
FIG .5
FOR LIQUID

✦ Note: We can design tailor made Probes for other application (Please refer us your requirement / application)

Flow + Control System,
Faridabad