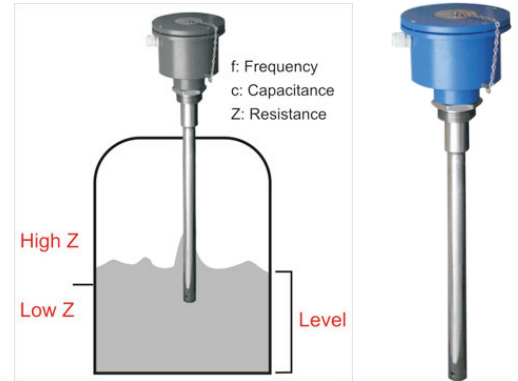




Capacitance & Rf Admittance Type Level Transmitter & Switches

A capacitance is formed between the probe and the vessel wall .As the level of the measuring medium rises or falls capacitance between the probe and vessel wall changes proportionately. A high frequency sine wave is applied between the probe and tank wall. A change of medium level will induce a change in the current of the applied sine wave. From $Z = \frac{1}{2\pi fc}$ when the capacitance in the vessel increase, impedance will decrease and current will increase and vice-versa. (Z=Resistance, C=Capacitance, F= Frequency)



Head mounted electronics converts the capacitance variation to 4-20mA signal for long distance transmission. It is provided with trim pots for SPAN and ZERO adjustments. With no moving parts it is free from wear and tear, rugged and robust in construction. No dead zone like float based instruments.

It must be ensured that the probe is parallel to the tank wall throughout it's length.

Technical Specification:

Mahalaxmi make RF admittance/capacitance type 3 wire Level transmitter Model (CLT-1) with non insulated probes for non-conductive liquids or PTFE Teflon insulated probes for conductive liquids.

Frequency of operation	: 5 to 15kHz.
Probe Material	: Stainless Steel / Teflon insulated 10/12/16 mm rod upto Max 3 Metre length
Process connection	: 3/4", 1", 1.1/2" BSP(M) or 1" ASA 150 lbs flanged but thickness 12mm (or as per customer specification)
Power supply	: 24VDC
Output	: 4 to 20 mA.(non-isolated)
Span & Zero adjustment	: Trim pots
Max.Working Pressure	: 10kg/sq.cm
Max.Working Temp.	: 150deg.C
Accuracy	: ±0.5%, ±1% or ±2%
Enclosure	: Cast aluminium weather proof with PG9 cable gland or Flame proof (IS2148-2004, Gr II A and B gases)
Cable Size	: 3 core, 0.75 sq.mm screened PVC cable.



RF Admittance Type Level Switches :

Mahalaxmi make Model (RF-LS1) , RF-Admittance Type Level Switch

The system is a DRIVEN SHIELD, COAT GUARD single point level switch. The electronics control unit is integral to the probe. Fail safe logic is field selectable.

Housing	: Cast Aluminum weather proof
Cable Entry	: 2x 16mm
Mains	: 230VAC / 24VDC
Output	: 2 nos potential free C/O contacts rated at 5 amps, 230 VAC resistive
Probe	: INTEGRAL
Mounting	: 1.1/2"BSP(m) threaded
Sensing	: Stainless Steel
Insulations	: PTFE
Probe Length	: 250mm



Housing	: Cast Aluminum weather proof
Cable Entry	: 2 x Pg7
Mains	: 24VDC
Output	: 2 nos potential free C/O contacts rated at 5 amps, 230 VAC resistive
Probe	: SS304 / SS316 Non insulated or PTFE insulated
Mounting	: 1/2" or 3/4" BSP(M) or 1 "ASA 150 lbs flanged but thickness 12mm
Probe Length	: 100mm as Standard.
Max. Working Pressure	: 4 kg/sq.cm
Max. Working Temp.	: 150 deg C

