

CONDUCTIVITY LEVEL LIMIT SWITCH LEVTESTER SLW... Series



SALIENT FEATURES

- No moving parts, so free from maintenance.
- No special cable required for signal transmission, so Economical to Install.
- Long cable connections permissible between probe and evaluation unit.
- AC on probes for prevention of electrolytic deterioration of electrodes.
- Low voltage on probe for operational safety.
- Variety of control functions and installation systems available.
 - *Two -point action for automatic pump control.*
 - *Two-point independent switching.*
 - *Three-point switching, two points with pump control logic and one independent point with or without settable delay for probe covered or uncovered condition.*
 - *Four-point switching with two pump control logic.*
 - *Variety of probes available for various process conditions.*

APPLICATIONS

Switching off pumps when tank is full, to avoid overflow.

For maintaining a constant level to avoid material wastage.

For switching off pumps when running dry and indicating an empty tank to avoid wear and tear and production stoppage.

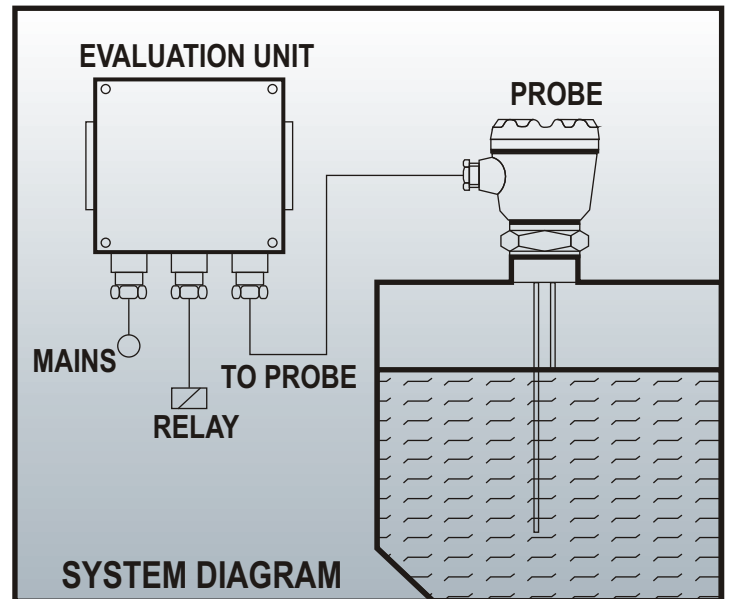
USAGE

Levtester SLW... series of level switches are successfully used in processing plants for conductive liquids of conductivity not less than 25μ Siemens in Food, Power, Chemicals, Sugar, Detergents, Steel, Minerals, Textiles etc.



PRINCIPLE OF OPERATION:

A low AC voltage is applied between the probe electrode and the tank wall (or reference electrode in case of insulated tank). When the liquid comes in contact with the electrode tip, a conductive path is established between the sense electrode and the tank wall/reference electrode. This current is sensed, amplified and made to operate a relay whose contacts in turn can be used for annunciation/control.



MODEL SELECTION

SLW.....Series

MODEL	DESCRIPTION
121	SINGLE-POINTSWITCH(1 RELAY)
221	SINGLE-POINTSWITCH(2RELA YSINP ARALLEL)
321	SINGLE-POINTSWITCH(WITHTIMEDELA Y)
521	PUMPCONTROLL OGIC(WITHONERELA Y)
721	PUMPCONTROLL OGIC(WITHTWORELA YSINP ARALLEL)
821	TWO-POINTSWITCH(ONERELA YFOREA CHSETPOINT)
921	TWO-POINTSWITCH(WITHTIMEDELA Y)
9P1	ONEPUMP-CONTROL+ SINGLE -POINTSWITCH
9P2	TWOPUMP-CONTROLFUNCTIONS

TEMPERATURE	DESCRIPTION
S	SUIT ABLEUPTO80°C
H	SUIT ABLEUPTO200°C

ENCLOSURE	DESCRIPTION
W	WEATHERPROOF
P	ONLYPROBEHEADFLAME -PROOFSUITABLE FORGROUPIIA&IIB

MOUNTING ARRANGEMENT	DESCRIPTION
T	THREADED,1"-1/2" BSP
F	FLANGED2"ANSI,10MMTHICK
O	OTHERS(SPECIFYSIZE&RA TING)*

MOUNTING MATERIAL	DESCRIPTION
MS	MS(ELECTROPLATED)
S4	SS304
S6	SS316
SL	SS316L
PV	PVC
PT	PTFE(TOTALTEFLON)
HD	HASTALLOYC
PC	PTFE COATED(ANTI-CORROSIVE)

PROBETYPE	DESCRIPTION
RD	RODPROBE
RP	ROPEPROBE

Example: **SLW 121 S W T MS RD** (Example)

*Specify Size.....&T ype (NPT, ANSI, DIN, JIS, SMS or Other) with R ating

TECHNICAL DATA :	
EVALUATION UNIT	
Housing	: Cast aluminium, Weather-proof Stoving enamel painted suitable for back panel/wall mounting.
Cable Entries	: 3 Nos. of 1/2 " BSP
Mains	: 110 or 230 V AC (-15 to + 10%) 50 Hz (as specified in order).
Relay Output	: One set of potential free change over contacts rated at 6A 230 V AC, 50Hz for non-inductive load.
Power Consumption	: 5 VA approx.
Fail-Safe Mode	: High or Low field selectable.
Response Time	: 0.5 second
Switching Delay	: 0.5 to 20 seconds for probe covered and uncovered condition (on request)
Maximum Sensitivity	: 25µ Siemens
Operating mode	:(A) Single point switching. (B) Two-point switching with pump control logic.
Indication	: Red LED for Alarm, Green LED for Normal.
Mounting	: 1½" BSP screwed (Flanged mounting on request).
Operating Temp.	: -20°C to + 60°C.
Weight	: 2 Kg.
PROBE	
Voltage	: 12 VAC (across probe & tank wall/ grounding electrode)
Current	: <4 mA (between probe & tank wall/grounding electrode through liquid)
Operating Temp.	: Upto 80°C (Standard model) Up to 200°C (Optional)

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