



**LEVEL MEASUREMENT & CONTROL SOLUTIONS**

**CONDUCTIVITY TYPE LEVEL SWITCH  
SERIES 130 RC**

The Conductivity type Level Switch, Series 130 RC can be used in a variety of applications in nonfuming conductive liquids like water , water bound solutions as well as corrosive liquids like acids and alkalies etc. It consists of 2 units ...

(a) Switch unit 130 RC - Mounted where switching indication /relay terminals are required.

(b) Probe head - Mounted on the top or side of the tank / vessel.

Probe unit consists of electrode assembly and probe head. In case of non-metallic tanks, a common electrode is required in addition to required numbers of sensing electrodes.



**SALIENT FEATURES:**

- Uses field proven level control technique.
- Wide range of electrodes to suit various applications.
- No calibration required.
- Field settable fail safe features.
- Simple to install.
- Two mounting options
  - ❖ Surface mounting.
  - ❖ Pipe mounting.

- Location : Safe area.
- Power Supply : 230 VAC/115 VAC,50Hz.
- Indication : Bi-colour LED's.  
Power ON - Green.  
Alarm - Red.
- Fail safe features : DIP switch settable Fail Safe High (FSH) / Fail Safe Low (FSL).
- Relay contacts : 2 C/O per set point, 5A @ 230 VAC/ 28VDC (Resi.).
- Environmental : Temperature - 0°C-50°C  
Relative humidity-0-95% (Noncondensing).
- Terminals : Suitable for 2.5 mm<sup>2</sup> size conductor (Max.).
- Power consumption. : £ 5 VA.
- Sensing voltage :  $V_{max} < 6 \text{ VAC}, 50 \text{ Hz @}$   
 $I_{max} < 100 \text{ mA.}$
- Cable Entries : 3/4" UNF / ET (F) Or 1/2" NPT (F).
- Weight : 2Kgs for switch unit.

**SPECIFICATIONS :**

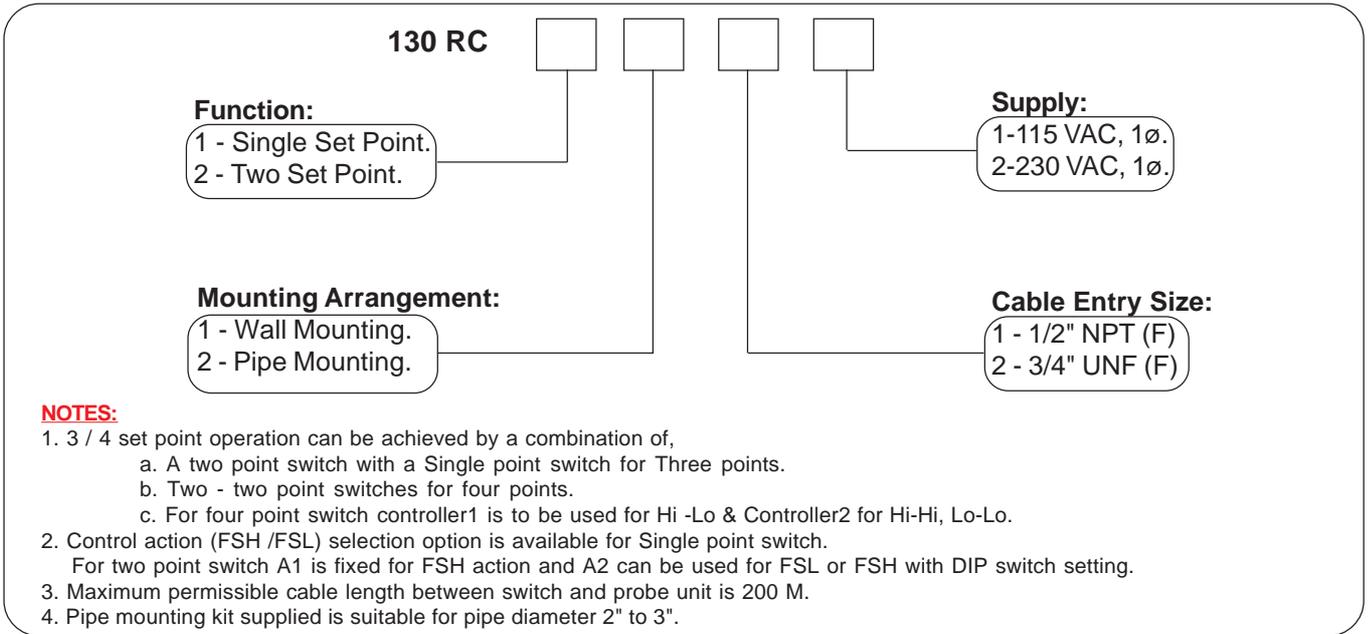
**PROBE HEAD**

- Enclosure : Cast Al, Polyurethane painted weatherproof to IP-67.
- Cable Entry : 1 /2" NPT (F) Or 3/4" UNF / ET (F).
- Process connection : 1/2" BSP minimum for single (1) electrode & 2 1/2" Flanged minimum for more than 1 electrode.
- 4 points in one probe in one probe head
  - Upto 3 mtrs for rigid electrodes.
  - Upto 30 mtrs with flexible SS wire electrodes.

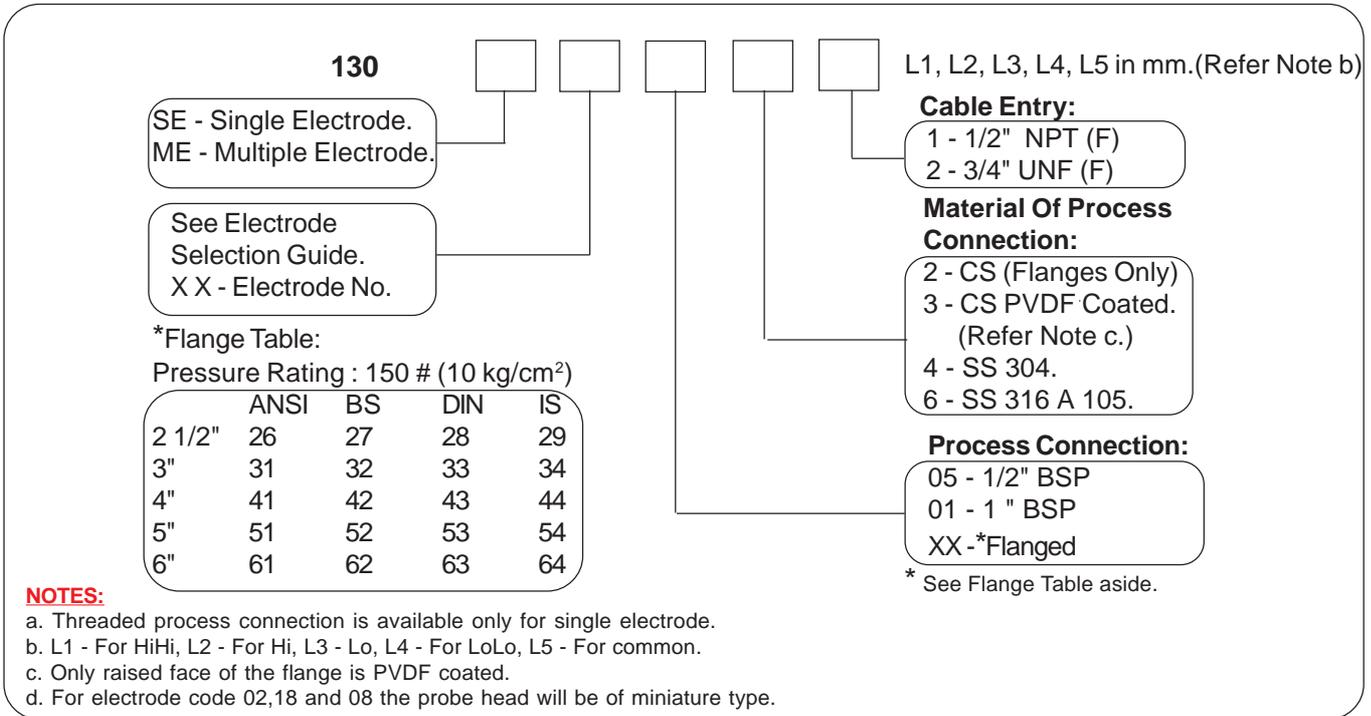
**SWITCH UNIT:**

- Enclosure : Cast Al, Polyurethane painted weatherproof to IP-67.

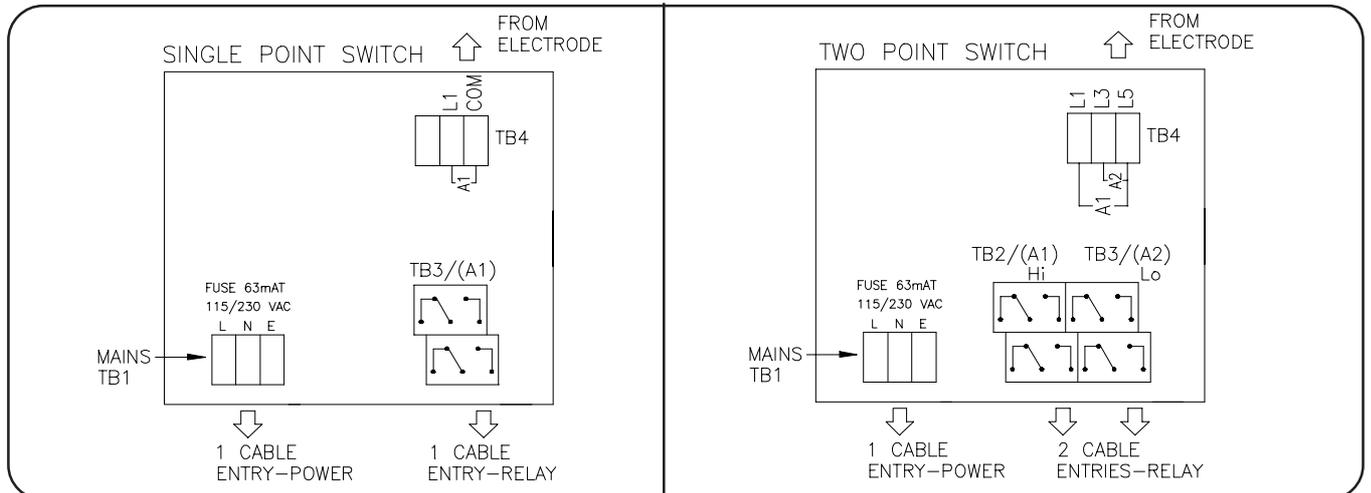
**ORDERING CODE FOR SWITCH UNIT :**



**ORDERING CODE FOR ELECTRODE:**



**ELECTRICAL CONNECTIONS:**



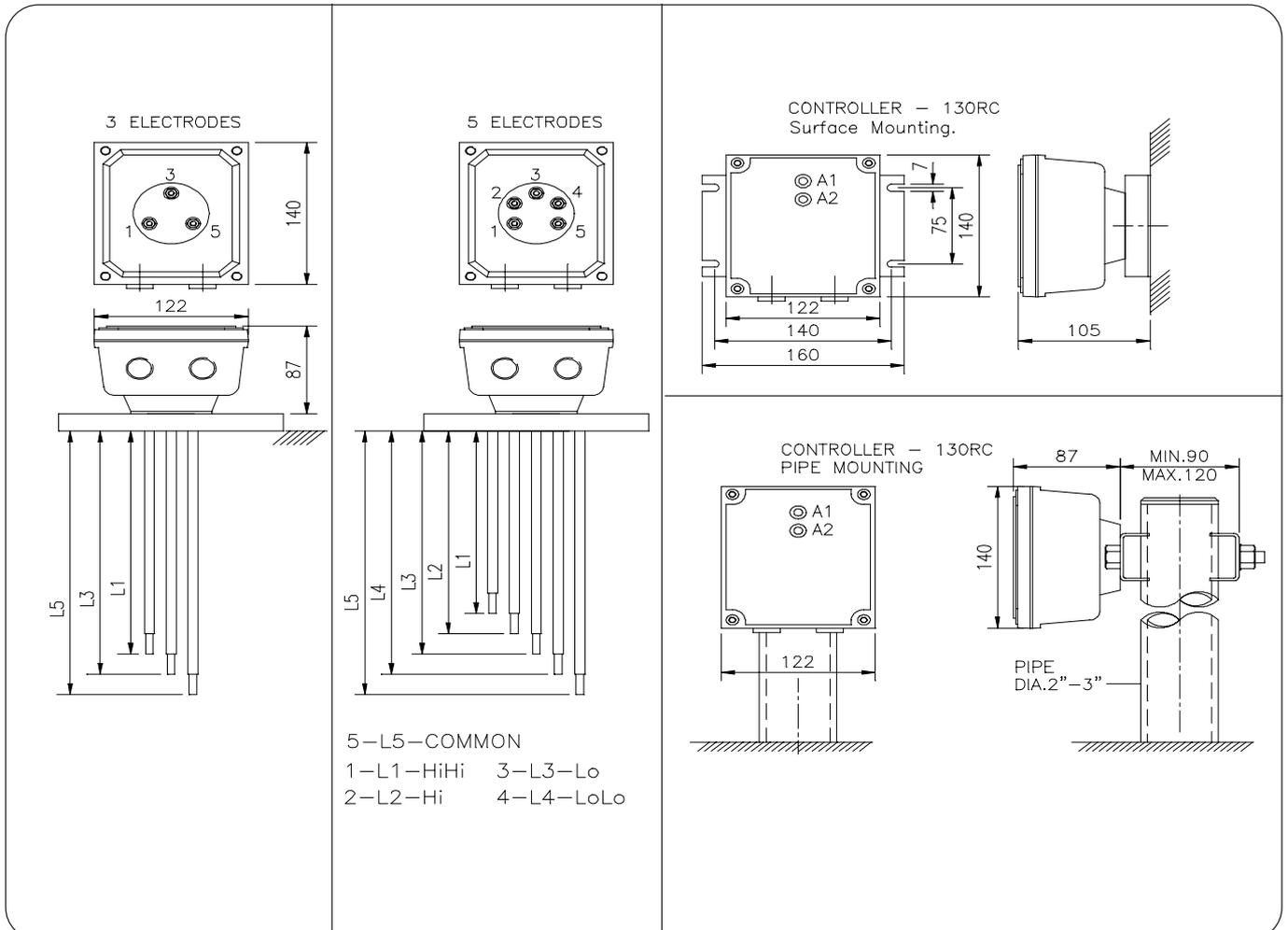
## ELECTRODE SELECTION GUIDE:

*Elect Code	DESCRIPTION	Process CONN.		MOC of ELECTRODE.		*Mount *V *H	NO. OF Elect.	Length In mm		max. Operating Conditions		SERVICE
		*Thd.	Flange size.(min.)	SENSING ELECT.	INSULATION TYPE			min.	max.	*Temp. °C	*Pres. Kg/cm <sup>2</sup>	
02	RIGID SS316 ELECTRODE, £ 6, POLYOLEFIN SHEATHED	1/2"	---	SS 316	POF	H V	1 1	100 100	1,000 3,000	60	10	WATER, EFFLUENTS FOR METALIC TANKS.
07	RIGID SS 316 ELECTRODE, £ 6, POLYOLEFIN SHEATHED	---	2 1/2"	SS 316	POF	V	Upto 5	100	3,000	60	ATM	WATER, EFFLUENTS.
18	RIGID SS 316 ELECTRODE, £ 6 PVDF SHEATHED.	1/2"	---	SS 316	PVDF	H V	1 1	100 100	1,000 3,000	140	10	MILK, FOOD PROUCTS FOR METALIC TANKS.
04	RIGID SS 316 ELECTRODE, £ 6, PVDF SHEATHED.	---	2 1/2"	SS 316	PVDF	V	Upto 5	100	3,000	140	ATM	SUMP RESERVIORS.
08	FLEXIBLE SS 316ELECTRODE, PTFE WRAPPED.	1"	---	SS 316	PTFE	V	1	500	30,000	60	ATM	SUMPS, RESERVIORS.
01	FLEXIBLE SS 316 ELECTRODE PTFE WRAPPED.	---	2 1/2"	SS 316	PTFE	V	Upto 5	500	30,000	60	ATM	SUMPS, RESERVIORS.
20	RIGID SS 316 ELECTRODE, £ 6 PVDF COATED WITH "HASTELLOY 'C' " TIP.	---	2 1/2"	SS 316	PVDF	V	Upto 5	100	3,000	140	ATM	ACIDS, ALKALIES.

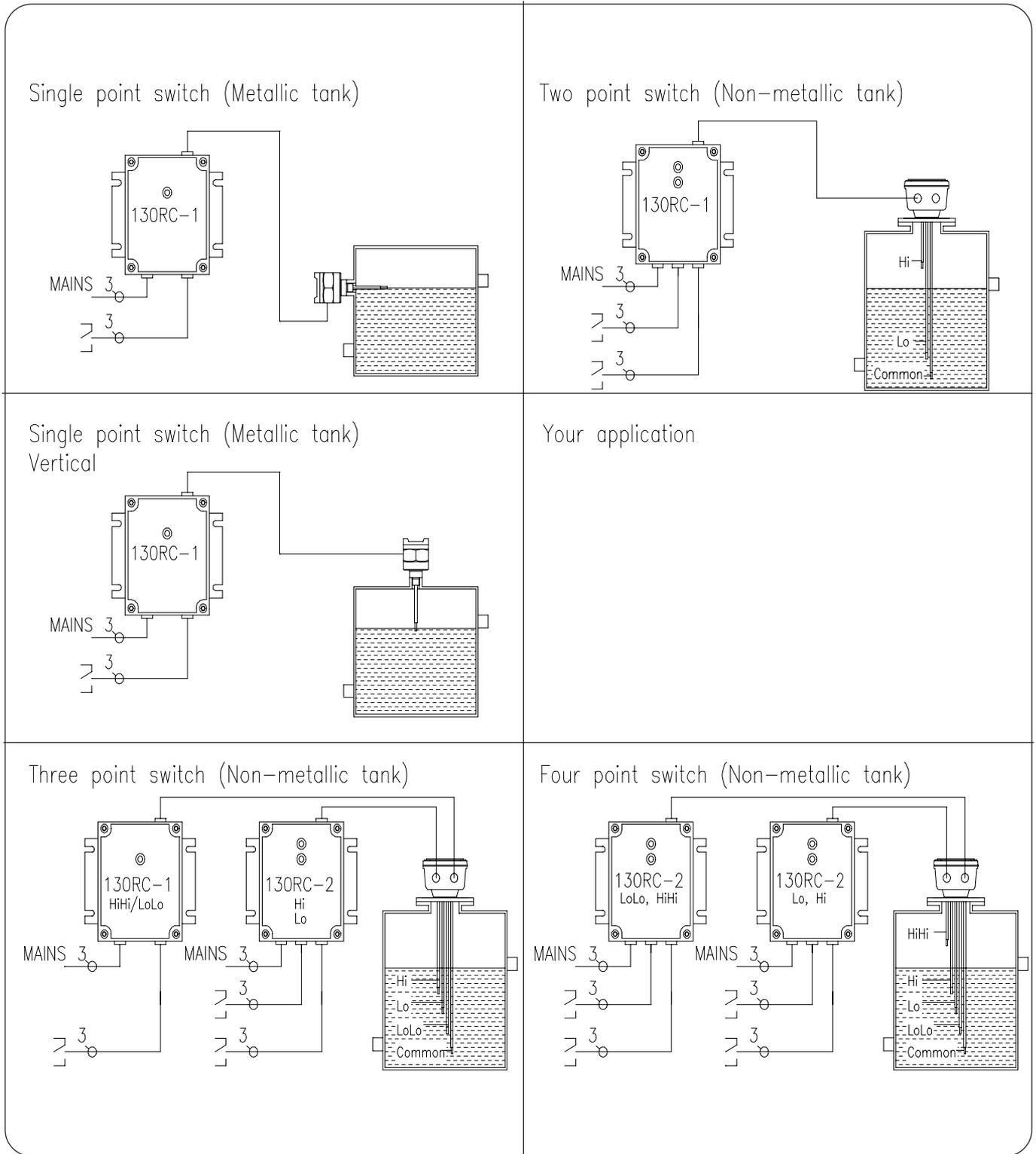
\* V - Vertical Mounting. \* H -Horizontal Mounting. \*Temp - Temperature. \* Pres - Pressure.

\* Thd - Threaded. \* Elect - Electrode, \* Mount - Mounting

### MECHANICAL DIMENSIONS IN mm:



**APPLICATIONS:**



\*\*\* Continuous developments may necessitate changes without notice.

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