

PH SMART TRANSMITTER



PO 600 PH

TECHNICAL SPECIFICATIONS :

1. Input supply	8 to 24 V D.C.(from panel Indicator)
2. Enclosure:	ABS Weather proof IP-65
3. Calibration:	Using trim pots.
4. Physical dimensions:	105 X 105 X 120 mm
5. Mounting	Field.
6. Temperature	0-60 degree C.
7. Output	4-20 mA D.C.
8. Range	00.00 to 14.00 pH

CALIBRATION OF THE TRANSMITTER:

The field transmitter comes duly calibrated & synchronized with the panel indicator from the factory. In case recalibration is required on site follow the guideline below:

Dip the sensor in 7.00 pH solution & adjust the trim pot **ZERO** to match the reading then dip the sensor in 4.00 or 9.20 & adjust the trim pot **SPAN** to match the reading.

TERMINAL DETAILS:

ZERO SPAN	V+	I out	GND	Sensor	
				Glass	Ref.

ZERO } : Trim pots for calibration
SPAN }

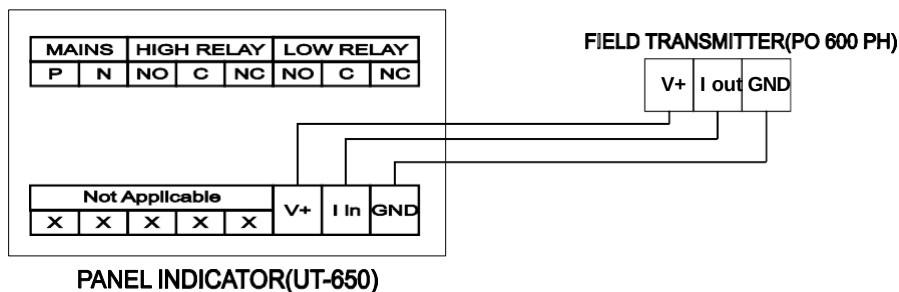
V+ : Input - 8 to 24 V D.C.

GND : Ground

I out : Output 4_20 mA Current

Glass } : Sensor connections
Ref. }

CONNECTIONS WITH PANEL INDICATOR(UT-650):



CAUTION:

Do the connections as per diagram given as change in sequence may damage the transmitter or panel indicator or both.

CURRENT SIMULATION FACILITY :

Transmitter has a facility to generate 4mA & 20 mA current irrespective of input. To simulate this follow below guideline:

Keep middle key pressed, switch off & switch on the power of smart transmitter. Then the transmitter will go to **TEST** mode & TEST/SERV. LED will be **RED** in color. Now when we

Press 4 mA key transmitter will give 4 mA current and when we

Press 20 mA key transmitter will give 20 mA current.

Upon pressing TEST/SERV.key transmitter will come to **SERVICE** mode. & the TEST/SERV. LED will be **GREEN** in color.

Follow the guideline below for better results.:

	DOS DON'TS
Do remove electrode sleeve or cap before using a new electrode.	Do not touch the bottom part of pH electrode with your hands, especially the bulb or reference junction.
Do keep the cap for long term storage of the pH electrode.	Do not scratch or damage the pH electrode bulb. This may totally break electrode or result in erroneous readings
Do store pH electrode in a soaking solution (pH 4.00 buffer).	Do not use reference junction with fast flowing reference junction in small samples where flow of reference solution could contaminate the sample.
Do rinse the pH electrode thoroughly with deionized water before measuring a new sample.	Do not mount pH electrode in pressurized line above 5 bar. Outlet of the line should be open to atmosphere.
Do mount the pH sensor vertically in the line.	Do NOT extend the sensor cable..

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