



## INTRODUCTION:

The compact 103 HTL Tank Level Indicator is a digital display unit providing a safe and convenient way to read transmitter data at ground level. The 103 HTL is easy to install and mountable on wall or pipe. Display of tank data at ground level saves time and helps to promote safety by eliminating unnecessary tank climbing.

Displays level or percentage level & volume or percentage volume. It accepts 4-20 mA input.

It has bright LED display suitable for better readability during day / night.

It is a field instrument and provides remote indication of signal transmitted by any of the SBEM's Transmitters like Pulse Radar (138), Guided Wave Radar (132 GWR), Ultrasonic (136 ULT), Hydrostatic (103 HPT), etc.

It has an built in 24 VDC power supply required for transmitter operation.

## FEATURES:

- 📄 Excellent for Tank Gauging & Marine onboard use
- 📄 Display selectable for level or volume and percentage level or volume
- 📄 Displays accurate volume for non-uniform tank shapes with strap entry upto 64 points
- 📄 Displays percentage level or volume on bar graph
- 📄 LED display gives better readability during day / night
- 📄 Indication of relay status
- 📄 Site programmable
- 📄 Programming through removable magnetic key block & is having tamper proof operation
- 📄 Displays differential parameter with dual input



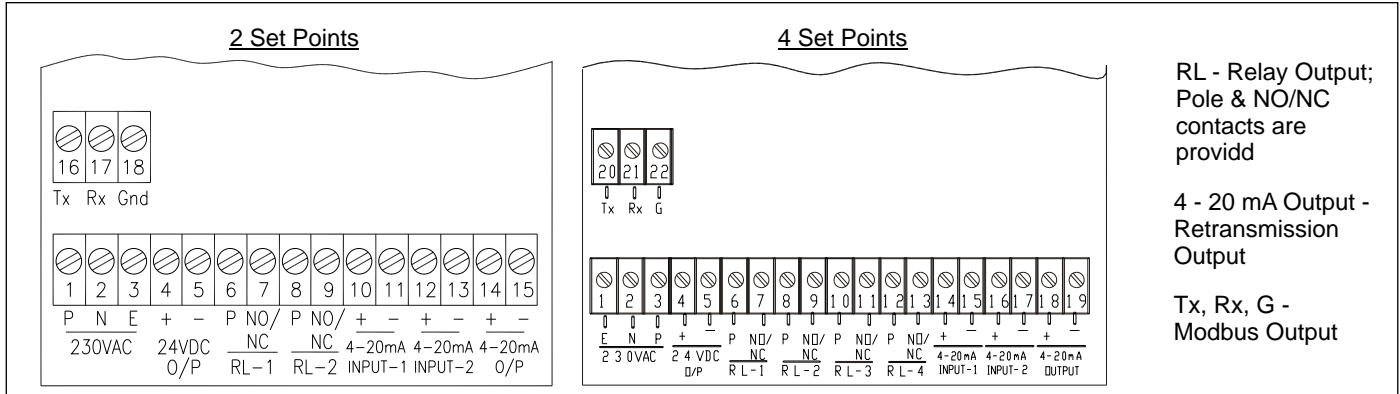
## SPECIFICATIONS:

- 📄 Input: 4-20 mA - single / dual
- 📄 Display: 5 digit, 10 mm seven segment LED display
  - 1st digit: Green display for parameter &
  - 4 digits: Red display for parameter value
- 📄 Range: Programmable from 0 to 9999
- 📄 Optional : i) 4-20 mA retransmission output
  - ii) RS 232/ RS 485 MODBUS RTU
- 📄 No. of Set Points: Two / Four
- 📄 Accuracy:  $\pm 0.1\%$  of FSD
- 📄 Power Supply: 110 VAC / 230 VAC
- 📄 Ambient Temperature: 0 to 55° C
- 📄 Transmitter Power Supply: 24 VDC, 50 mA
- 📄 Mounting: Wall or Pipe mounting
- 📄 Enclosure: Weatherproof to IP 67;  
Cast Aluminum, polyurethane painted
- 📄 Cable Entry: 3 Nos. 1/2" NPT / 3/4" UNF

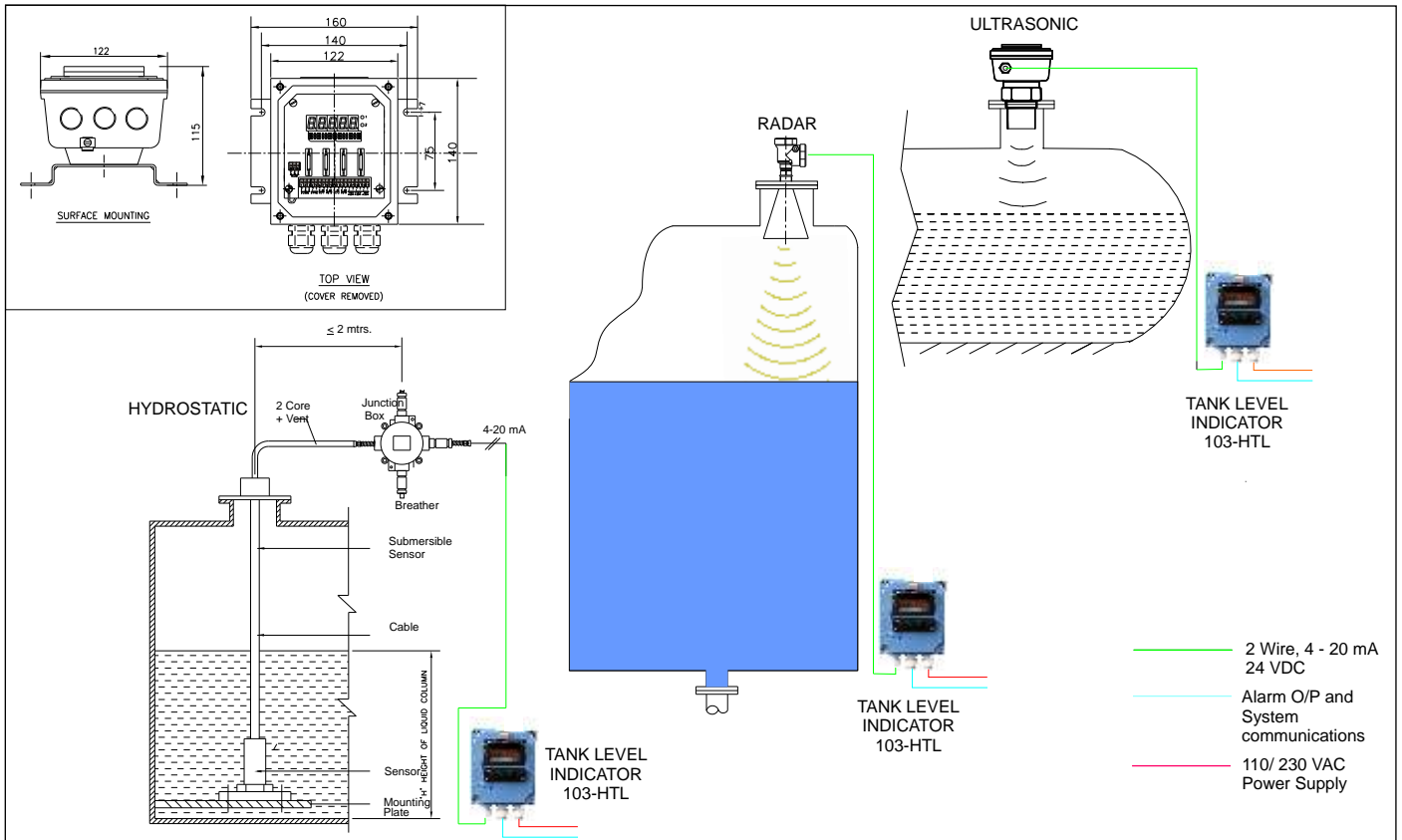
## ORDERING CODE:

103 - HTL					
TYPE	OUTPUT	NO. OF SET POINTS	CABLE ENTRY	POWER SUPPLY	MOUNTING ARRANGEMENT
9 - Single channel Indicator with 4 - 20 mA input	0 - Not applicable 1 - 4 - 20 mA current O/P 2 - MODBUS RTU RS 232 3 - MODBUS RTU RS 485	0 - None 2 - Two 4 - Four	T - 1/2" NPT F - 3/4" UNF	1 - 110 VAC, 50 Hz 2 - 230 VAC, 50 Hz	1 - Wall 2 - Pipe
8 - Dual channel Indicator with 4 - 20 mA inputs (differential output)	4 - 4 - 20 mA Current O/P + MODBUS RTU RS 232 5 - 4 - 20 mA Current O/P + MODBUS RTU RS 485				

## TERMINAL DETAILS:



## MECHANICAL DETAILS AND GENERAL ARRANGEMENT



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

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LF\_TnkLvlInd\_103HTL



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### • Our Product Range •

**Level Switches:** Float, Displacer, Capacitance, Conductivity, Vibration, Rotary Paddle

**Level Transmitters:** Pulse Radar, Guided Wave Radar, Ultrasonic, Capacitance, Hydrostatic

**Tank Gauging:** Servo, Float & Tape, Magnetostrictive, Float & Board

**Flow Meters:** Electromagnetic, Ultrasonic



ISO 9001: 2008