



UNI-TECH
Automation Pvt. Ltd.

e-smart Capacitive Level sensor



e-smart Capacitive Level sensor

esmart LVL 160 is a cost effective Capacitive Level Sensor designed for measuring rpm

LVL-160 level transmitter is a capacitive liquid level measuring instrument. Its capacitance is measured with respect to liquid in litres. This product is designed for liquid level measurement with good stability and processing electric circuit of high accuracy smart transmitter, and the non-linearity revision technology. The output of LVL-160 is 0-5 V / RS485, this makes this transmitter carry on transmission with computer directly.

e-smart LVL 160 features

- Linear Operation
- MODBUS Protocol (RTU Mode) for RS-485 interface
- Advance circuit design and software
- Compact & Robust Design, light weight

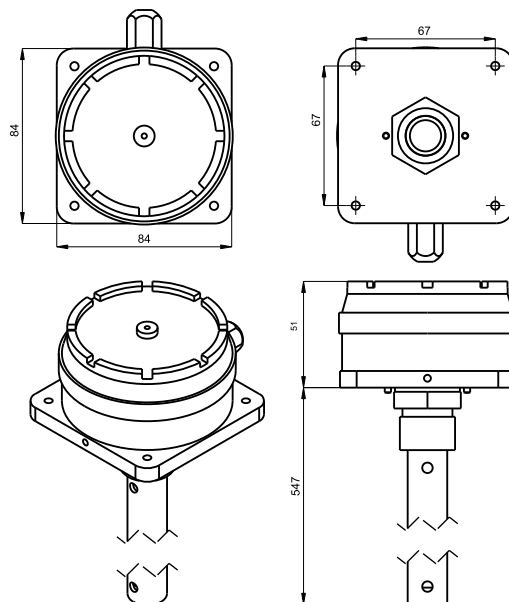
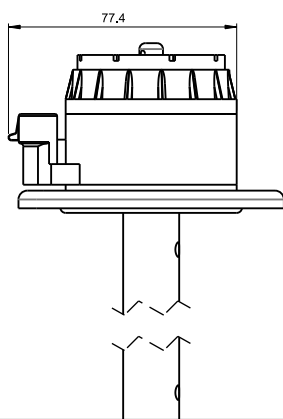
Application:

- Genset fuel tank
- Hydraulic fluid tank
- Non corrosive chemical

Working:

A Capacitive transducer is used as the primary sensing element. The height of liquid in a tank is measured using pressure sensor. Sensor is placed at the top of the tank. The sensor is connected with open ended tube. The tube's open end is submerged in to the tank. As the liquid level rises, a proportional amount of capacitance increases on the sensor via trapped air in the tube.

Internal circuitry converts the signal to 0-5VDC, with 0VDC corresponding to zero depth & 5VDC to rated depth for selected range.



FEATURES	DESCRIPTION
Operating Voltage	8V-32VDC
Output Signal	0-5VDC
Communication	RS - 485 MODBUS RTU Mode
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Accuracy	Better than 1%
Repeatability	1%
Sensitivity	1%
Max Probe Length	2 meter Max
Isolation	Fully isolated from liquid
Enclosure	Plastic & Stainless Steel
Over all Dimensions	As per attached drawing
Mounting	Flange or threaded
Tank Height Max	2000mm

DESIGN RTU 98906 59256 (5-17)

Manufactured by : **UNI-TECH Automation Pvt. Ltd.**

Regd. Office & Unit I :

S. No. 79/2, plot No. 7, Shivane,
Pune : 411 023

Unit II : Plot No. 4, Palshi Road,

Off Pune- Bangalore Highway,
SHIRWAL, Taluka: Khandala, Dist: Satara : 412 801

♦ Tel : +91-20-25292392

♦ Fax : +91-20-25294043

♦ sales@uni-techautomation.com

♦ www.uni-techautomation.com