

## LEVCON CONTROLS PVT. LTD.

"Rajkamal", 6<sup>th</sup> floor, 13, Camac Street, Kolkata-700017.

Ph: 033 2283 2766/3022 5767 Fax: 033 22832719 Email: [info@levcongroup.com](mailto:info@levcongroup.com) Web: [www.levcongroup.com](http://www.levcongroup.com)

### Ultrasonic Level Transmitter

Ultrasonic Level Transmitters provide accurate non-contact detection of liquid and solid levels in tanks/vessels. With non-contact sensing technology, wide measuring range, short dead band, high resolution and a range of analog/digital outputs, these level transmitters are suitable for a wide variety of industrial applications.

#### Features:

Sensing Technology: Ultrasonic, non-contact  
Software calibration  
Range: Upto 15 mtrs  
Outputs: 4-20 mA current loop  
Temperature: -15°C to +70°C  
Temperature Compensated



Remote Indicator: 4½ digit LED Indication  
Alarm set points (04 nos.) adjustable  
4-20 mA current loop (sourcing)  
RS-232 serial data communications  
Software Calibration



#### Applications:

Water  
Oils  
Chemicals  
Powdered Solids  
Solids

#### Principle of Operation:

The Ultrasonic Sensors measure the distance or presence of a target object by sending a ultrasound wave at the object and then measuring the time for the sound echo to return. With the speed of sound known, the sensor can determine the distance of the object from the transducer element. The distance measured is converted to a 4-20 mA signal which is transmitted to the Remote Indicator. The Remote Indicator receives this 4-20 mA signal and converts it into a proportional voltage which is further amplified and processed to provide digital display, adjustable alarm set points, 4-20 mA retransmission and digital outputs.

**Specifications:**

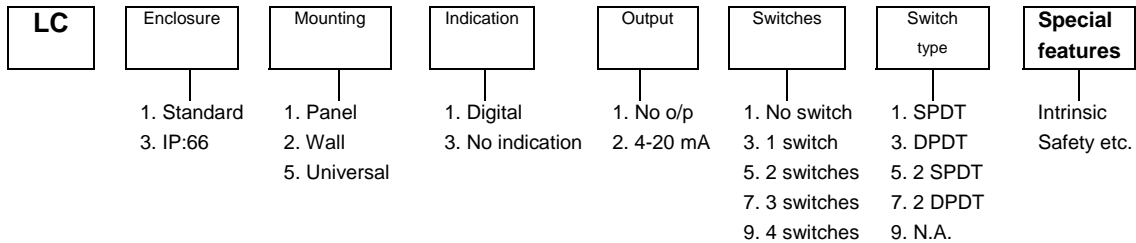
**Sensor:** **Ultrasonic, non-contact**  
Power Supply: 15-30 V DC  
Range: Up to 15.2 m  
Outputs: 4-20 mA current loop  
Temperature: -15°C to +70°C  
Repeatability: ±0.2% ±2mm of range  
Sensor Case Material: PP/Heavy duty stainless steel  
Sensor protection: IP 67/IP 68  
Sensor Enclosure: PP / Aluminium, IP 66  
Cable Entry: ½" NPT (F) as standard, other types on request

**Remote Indicator:** **Microprocessor based**  
Power Supply: 230 V AC / 110 V AC / 24 V DC ±10%  
Input: 4-20 mA  
Outputs: 4½ digit LED Indication  
Alarm set points (04 nos. max) adjustable  
4-20 mA current loop (sourcing)  
RS-232 serial data communications  
Software Calibration  
Enclosure: Aluminium, IP 66  
Power Consumption: 15 VA max  
Overall Accuracy: ±1% of full scale

**Model Number decoding system:**

**Sensor -**  
ULS 01 (60 to 500 mm)  
ULS 02 (200 to 2000mm)  
ULS 03 (300 to 3500mm)  
ULS 04 (10 cm to 4.25 m)  
ULS 05 (25 cm to 9.1 m)  
ULS 06 (36 cm to 15.2 m)

**Remote Indicator –**



**Note:**

All combinations are not possible  
Since improvements are made from time to time, specifications are liable to change without notice