



### General

SIM has developed the ultrasound level meter LV640 in order to monitor the water level in wells, channels, where the absence of moving parts under water allow the instrument to have a very easy installation and having high quality at the same time. This instrument, due to its features, is used for high depth waters, for example, for measuring the water level in dams and rivers etc.

The instrument working principle is based on the response time of a sound wave. In the first phase the instrument releases a define number of sound waves, in the second phase it receives back the eco, calculating the time elapsed between the wave sent and the one received. The instrument translate the time elapsed into distance. The output signal produce is mA, and it is directly proportional to the distance between the sensor and the water surface, where 4 mA is max height and 20 mA is the min one.

Since has this sensor an electrical output, it can be easily read by any data acquisition system produced by SIM:

- A. MINILOG data acquisition system
- B. NATUN data acquisition system
- C. DATAVIEW read out unit

### Applications

Water level measurement in dams, rivers, lakes etc.

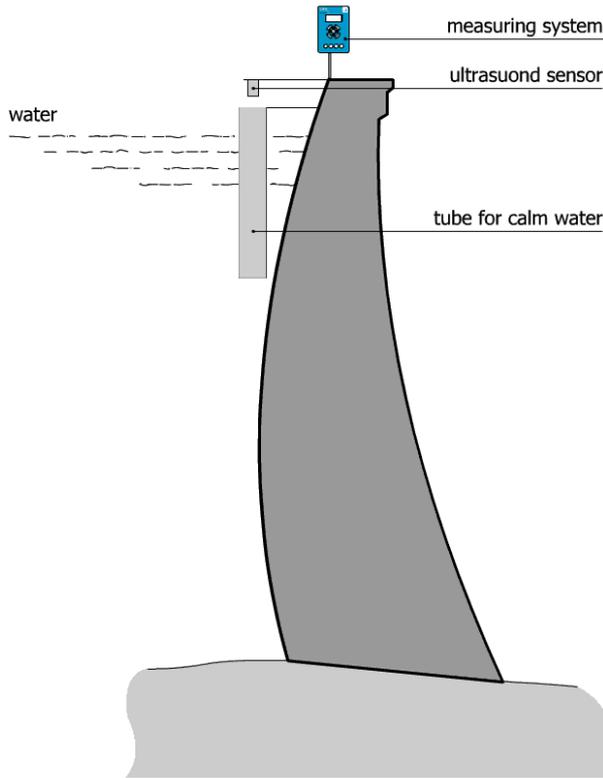
**Level measurement  
with no contact**

**Temperature compensated**

**4-20 mA Output**

**Reliability for long  
term monitoring**





## Technical features

Model	LV 640 - 01	LV 640 - 02	LV 640 - 03
Range (mt)	0.3 ÷ 2.3	0.4 ÷ 8.0	0.6 ÷ 15.0
Supply	18-30 Vcc	14-30 Vcc	
Output	4-20 mA		
Linearity	0.3 % FS		
Temperature Err.	0.03% °C	0.06% °C	
Dimensions (mm)	Ø 100 x 216	Ø 77 x 270	Ø 158 x 235
Operating temperature	0 ÷ +70 °C	-40 ÷ +80 °C	
Material	PVC		
Weight	0.360 Kg	2.500 Kg	3.800 Kg

## Accessories & spare parts

LV640 - AX - MW01	Mounting beam
LV640 - AX - MWL1	Mounting bracket for model 01
LV640 - AX - MWL2	Mounting bracket for model 02
LV640 - AX - MWL3	Mounting bracket for model 03

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