

# HYDROSTATIC LEVEL TRANSMITTER

**LG-20C** Any measurement range from 1 up to 100 m H<sub>2</sub>O  
**Output Signal: 4~20mA (2-wires) + HART**

The LG-20C features advanced circuitry and temperature compensation technology, which converts the liquid level measurement into a standard 4~20mA output signal. This offers strong anti-interference capability, low thermal error, and high stability, providing excellent measurement accuracy and sealing performance.

### Preferred Areas of Use

- Water / filtrated sewage
- Ballast Water Tank Level Monitoring for Vessels
- Deep Well and Groundwater Monitoring
- Sewage and Flood Discharge System Monitoring
- Water Level Measurement of Rivers, Lakes, and Reservoirs
- Factory Water Tank Level Monitoring

### Technical Data

**Measurement Range:** 1...100 m H<sub>2</sub>O

Measurement Range	0~2 m H <sub>2</sub> O	0~3.5 m H <sub>2</sub> O	0~7 m H <sub>2</sub> O	0~10 m H <sub>2</sub> O
Minimum Set Range	0~0.5 m H <sub>2</sub> O	0~0.8 m H <sub>2</sub> O	0~2 m H <sub>2</sub> O	0~2.5 m H <sub>2</sub> O
Maximum Overpressure Limit	4 m H <sub>2</sub> O	7 m H <sub>2</sub> O	14 m H <sub>2</sub> O	20 m H <sub>2</sub> O
Measurement Range	0~20 m H <sub>2</sub> O	0~35 m H <sub>2</sub> O	0~70 m H <sub>2</sub> O	0~100 m H <sub>2</sub> O
Minimum Set Range	0~5 m H <sub>2</sub> O	0~8 m H <sub>2</sub> O	0~20 m H <sub>2</sub> O	0~25 m H <sub>2</sub> O
Maximum Overpressure Limit	30 m H <sub>2</sub> O	52.5 m H <sub>2</sub> O	105 m H <sub>2</sub> O	150 m H <sub>2</sub> O

**Accuracy Level:** 0.2

**Thermal Error:** ≤ ±0.2% F.S / 10°C (Within the range of temperature compensation)

**Thermal Compensation Range:** 0~50°C

**Long Term Stability:** ≤ ±0.1%/URL (12 months)

**Response Time:** 0.25s

**Overload Capacity:** 150%~200% full span

**Working Temperature:** -20~80°C

**Power Supply:** 10~32V DC [4~20mA (2-wires), HART]

**Load Resistance:**  $RL \leq (U_s - U_{min}) / 0.026$

**Probe Material:** SS316L, standard

**Diaphragm Material:** SS316L, standard ; and Hatelloy C-276, Tantalum on option

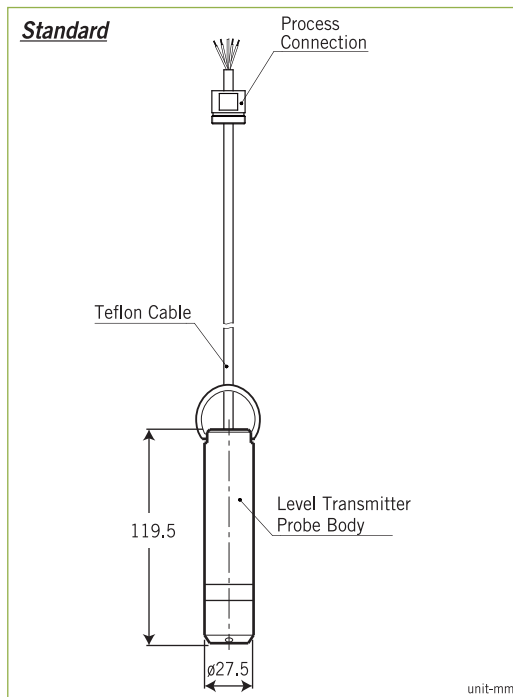
**Cable Shield:** PU and PTFE

**Cable Length:** 5M standard; maximum length 100M



**LG-20C**

### Dimensions



### Principle

$$P = \rho hg$$

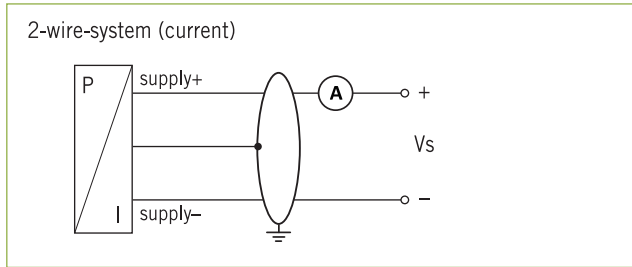
P= sensor pressure at the measurement point

$\rho$ = Media density

g= gravity acceleration used

h= height of the measurement point above the liquid surface

## Wiring Diagrams



## Ordering Information

LG20C		/	/	/	/	/	/	/ L=....M
<b>Level Probe:</b>								
<b>Measurement Range / Min. Set Range</b>								
<b>/ 2</b>	0~2 mH <sub>2</sub> O / 0~0.5 mH <sub>2</sub> O							
<b>/ 3.5</b>	0~3.5 mH <sub>2</sub> O / 0~0.8 mH <sub>2</sub> O							
<b>/ 7</b>	0~7 mH <sub>2</sub> O / 0~2 mH <sub>2</sub> O							
<b>/ 10</b>	0~10 mH <sub>2</sub> O / 0~2.5 mH <sub>2</sub> O							
<b>/ 20</b>	0~20 mH <sub>2</sub> O / 0~5 mH <sub>2</sub> O							
<b>/ 35</b>	0~35 mH <sub>2</sub> O / 0~8 mH <sub>2</sub> O							
<b>/ 70</b>	0~70 mH <sub>2</sub> O / 0~20 mH <sub>2</sub> O							
<b>/ 100</b>	0~100 mH <sub>2</sub> O / 0~25 mH <sub>2</sub> O							
<b>Output Signal:</b>								
<b>/ 4~20mA (2-wires), HART</b>								
Power supply: 10~32VDC, HART								
<b>Probe Material:</b>								
<b>/ 6L</b>								
SS316L								
<b>Cable Shield Material:</b>								
<b>/ PU</b>								
PU								
<b>/ PTFE</b>								
PTFE								
<b>Process Connection:</b>								
<b>/ S</b>								
Standard								
<b>/ O</b>								
Option: others on request								
<b>Cable Length:</b>								
Please fill the cable length directly. (e.g.: 20M)								

### Example:

**LG20C/7/4~20mA (2-wires), HART/6L/PTFE/S/20M**

Level Probe model: LG-20C

Measuring Set Range: 0~100 mH<sub>2</sub>O

Output Signal: 4~20mA (2-wires), HART

Probe Material: 6L

Cable Shield Material: PTFE

Process Connection: Standard

Cable Length: 20M