



# SUMERIBLE, THROW-IN

## Level Transmitter

— CORROSIVE-PROOF, PTFE Lead Cable —

HIGH ACCURACY:0.2%, WITH INDICATOR OR NOT

Model No.: MLT6300P



# General Specifications

GS 19A16D01-01EN

## LEVEL TRANSMITTER SUBMURGIBLE, THROW-IN MLT6300P

### Overview

MLT6300P is integrated submergible digital level transmitter, designed with high accuracy and stability diffusion silicon pressure sensor as sensitive components, high quality sealing and assembly technology, widely used for universal industrial applications for level measured with corrosion-proof .

### Feature

- Range: 0-10m
- 4-20mA ,RS485, 4-20ma+RS485 output
- Diffusion silicon sensor, 0.2% high quality and stability
- Lead cable: PTFE corrosion-proof cable
- Digital Indicator: 4-1/2LCD digital display, option
- Protection: transmitter: IP68, Indicator: IP65
- With lightning surge protection, anti-RF interference
- With reverse polarity protection and limit current protection
- Wide power supply: 12-36VDC

### Specification

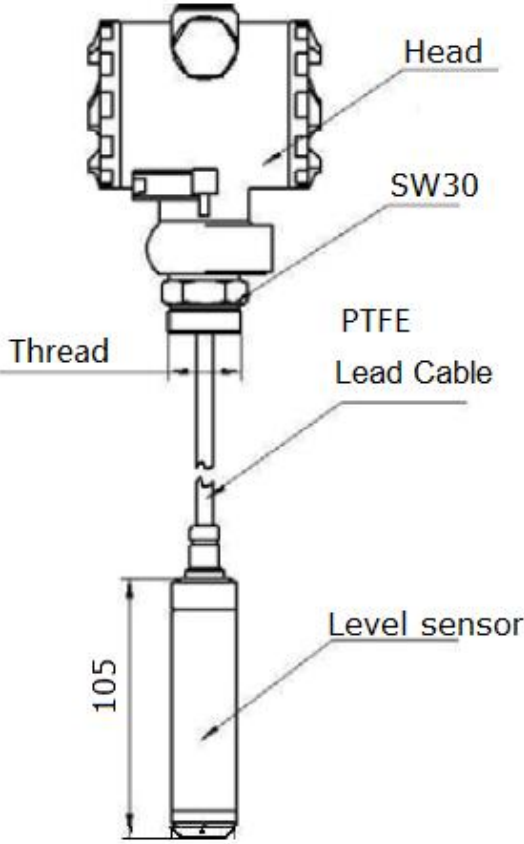
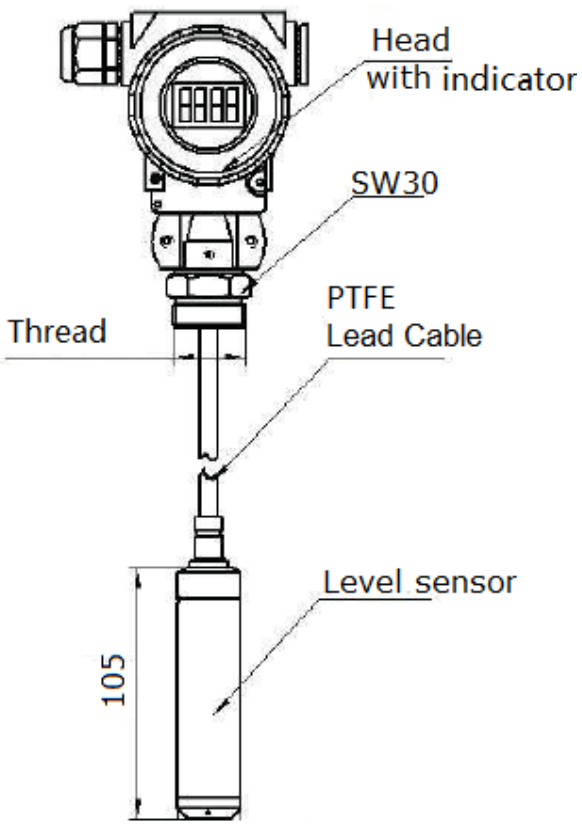
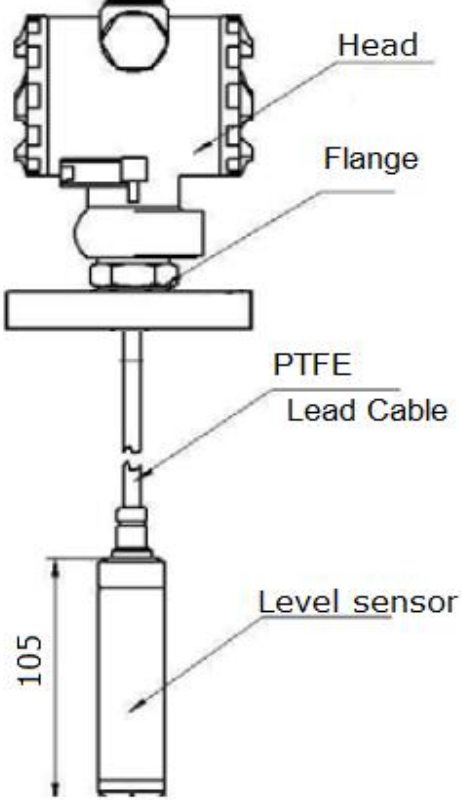
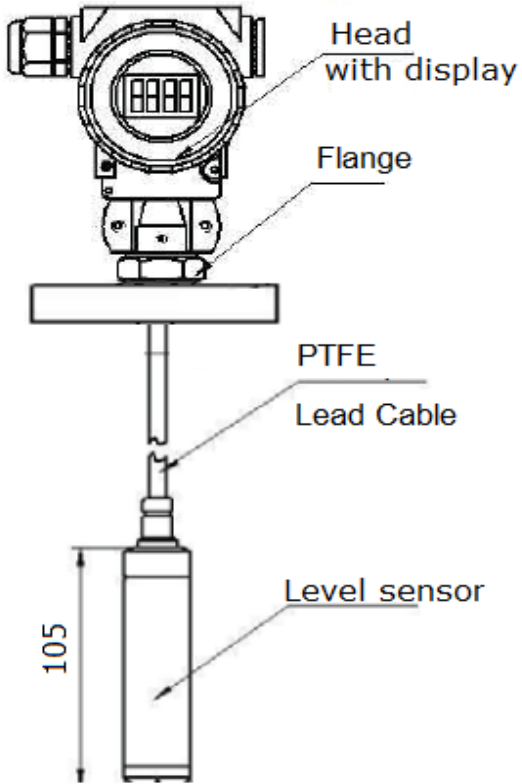


#### Used for:

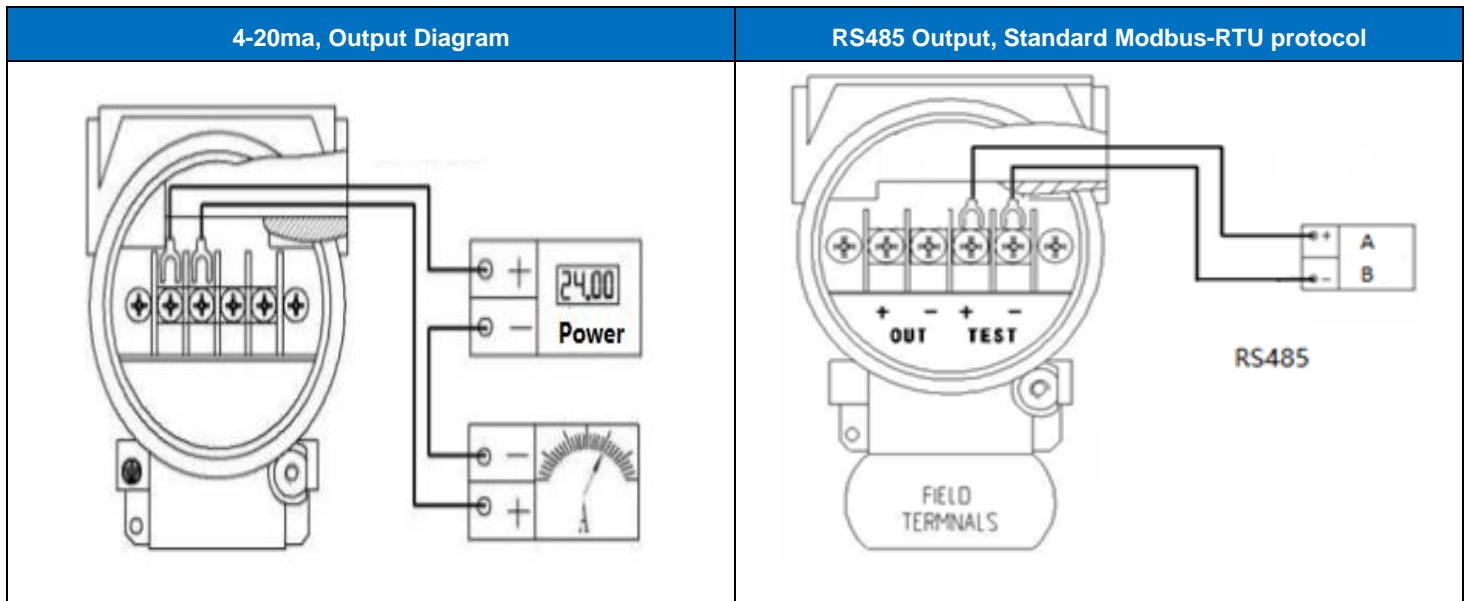
- Static pressure level, Liquid tanks, Petroleum, Chemical
- Pools, wells, rivers, seawater, lakes, marine
- City water supply, Industrial water, hydrology exploration

Process fluid	corrosive liquids	Diaphragm Material	316LSS, diffuse silicon
Range	0 to 10m	Sensor (Probe) Material	PTFE corrosion-proof probe
Accuracy	±0.2%, ±0.5%, ±0.1%	Lead Cable Material	PTFE corrosion-proof cable
Stability	0.25% %F. S per year	Housing Material	Aluminum alloy with spraying painted
Fluid temperature	0 to 150°C	Indicator	4-1/2LCD digital display
Comp. temperature	0 to 70°C	Output	,4-20ma, RS485, 4-20ma+RS485
Over pressure	twice of max. range	Installation	Thread or Flange
Temperature effect	±1.5% FS (accuracy: ±0.2%)	Flange Material	PTFE
	±3.0% FS (accuracy: ±0.5%)	Electrical Connector	M20X1.5
	±5.0% FS (accuracy: ±1.0%)	Power supply	14-36VDC (4-20mA output)
Zero offset	<0.5% of output range		12-36VD (RS485 output)
Zero &Range adjust	+20% (only indicator type)	Standard Power Supply	24VDC±5%, ripple less than 1%
Range adjustable	between Min. &max. range	Power effect	Less than 0.01%/V of output range
Load effect	Negative	IP protection	IP 68 (transmitter), indicator(ip65)
Load resistance	4-20mA, 0-10mA , R≤1KΩ	Storage temperature	-40 to 125°C
	0-5VDC output: R≥500Ω	Size	105mm x 28mm (Lx D)

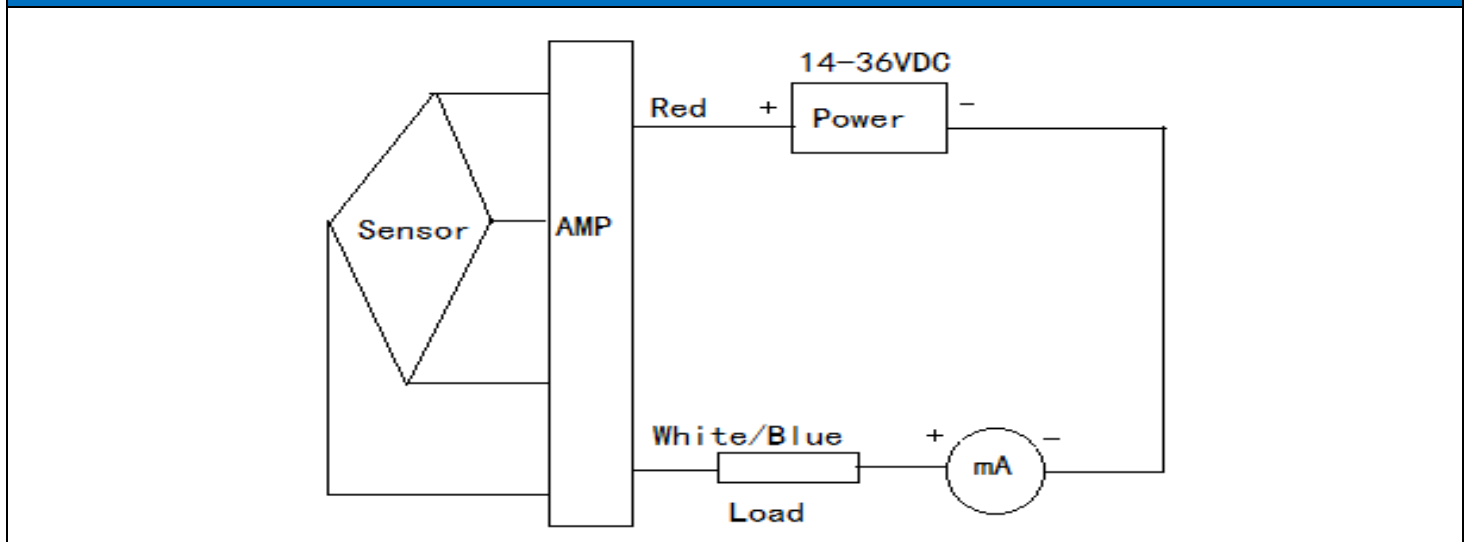
■ Size (mm)

MLT6300P-AT, Flange Installation	MLT6300P-DT, Flange Installation
 <p>Diagram illustrating the flange installation for the MLT6300P-AT model. The assembly consists of a Head, SW30, PTFE Lead Cable, and Level sensor. The Level sensor is shown with a height dimension of 105 mm. The Thread is indicated at the connection point between the SW30 and the PTFE Lead Cable.</p>	 <p>Diagram illustrating the flange installation for the MLT6300P-DT model. The assembly consists of a Head with indicator, SW30, PTFE Lead Cable, and Level sensor. The Level sensor is shown with a height dimension of 105 mm. The Thread is indicated at the connection point between the SW30 and the PTFE Lead Cable.</p>
MLT6300P-AF, Flange Installation	MLT6300P-DF, Flange Installation
 <p>Diagram illustrating the flange installation for the MLT6300P-AF model. The assembly consists of a Head, Flange, PTFE Lead Cable, and Level sensor. The Level sensor is shown with a height dimension of 105 mm.</p>	 <p>Diagram illustrating the flange installation for the MLT6300P-DF model. The assembly consists of a Head with display, Flange, PTFE Lead Cable, and Level sensor. The Level sensor is shown with a height dimension of 105 mm.</p>

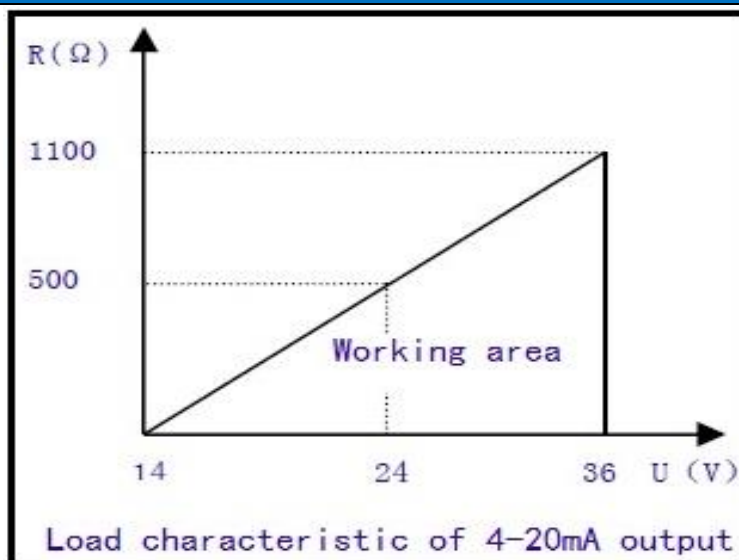
## ■ Diagram



E.g.:4-20mA Output diagram

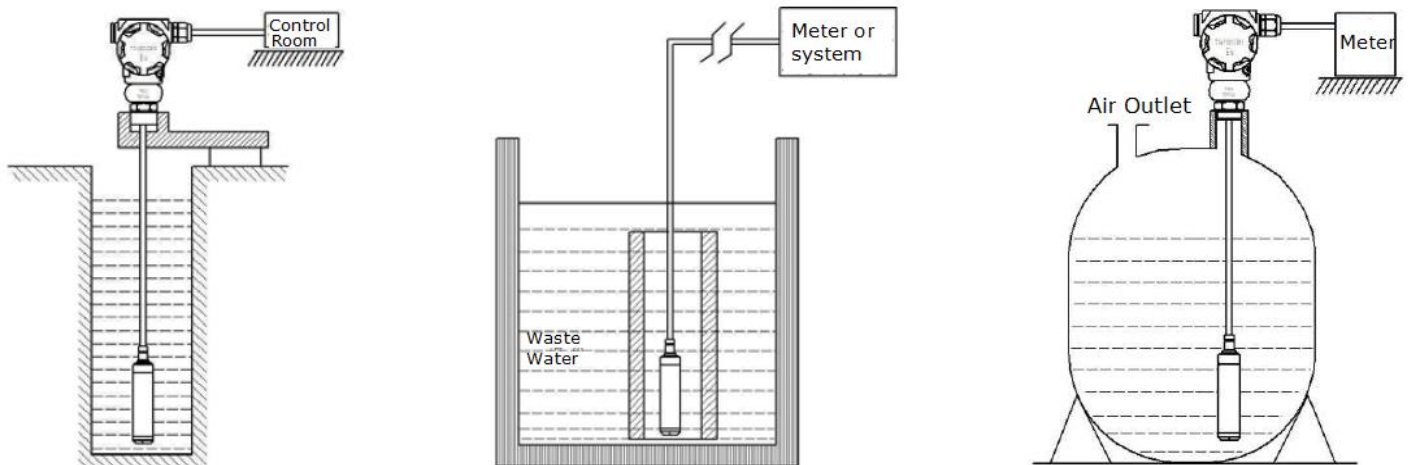


E.g. Load Resistor for 4-20mA Output



## Installation Notes

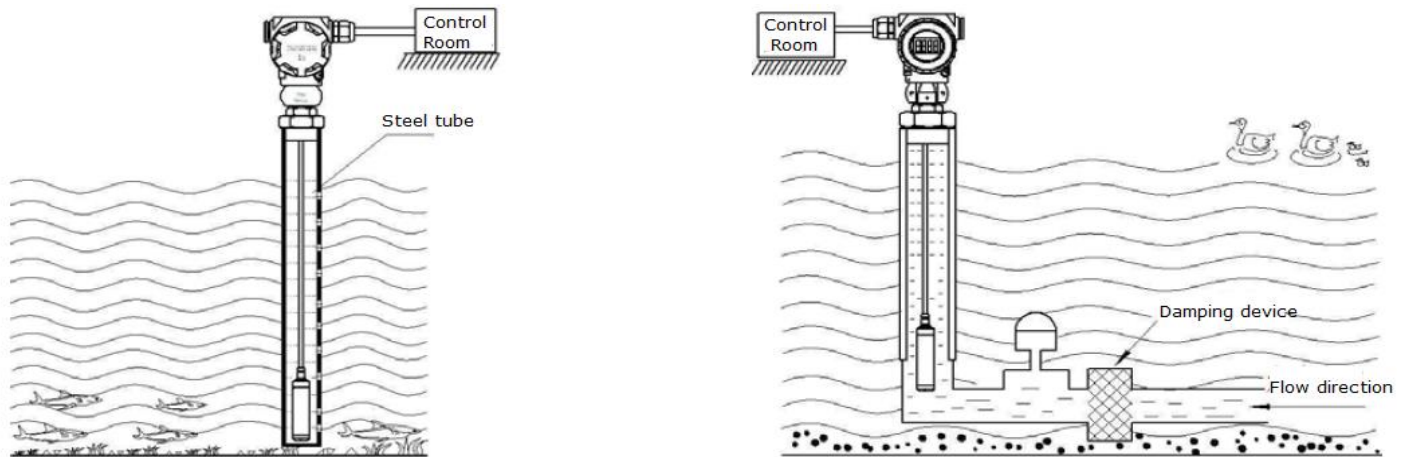
### Installation in standing water (wells, pools, liquid tanks)



**Note:**

- a. When the transmitter will be installed into the standing water for open contains, well, pools, tanks etc, please throw the transmitter vertically into the bottom of the contains and fix the cable or head on the open hole of contains.
- b. When the fluid's viscosity is high (such as waste water), please install the sleeves or brackets to guarantee the transmitter to throw into the bottom of the contains
- c. When outdoor or open-air installation, please install the head of transmitter on the ventilated and dry place in order to avoid to direct sunlight and rain shower to make the case temperature is too high or water into to damage the internal circuit board.

### Installation in moving water (rivers, lakes)



**Note:**

- a. When the transmitter is installed in moving water and under the condition of the fluid with high fluctuations, please install a steel tube with 50mm diameter in water, several holes with 5mm diameter at the different heights of the tube into water in the opposite direction on the water flow can be cut to make the water into steel tube, finally please fix the cable and head at the outlet of tube
- b. In the case of fluctuations in the medium of the water channel and large sediments, it is also to filter the sediment and eliminate the adverse effects of dynamic pressure and waves by installing a damping device to ensure measurement accuracy.
- c. When the product is installed in frequent thunder area, it shall be marked as "lightning –thundering protection" when ordering. At the same time, it is recommended to install the lightning-thundering protection device to ensure the reliable grounding of the product and power supply, which can reduce the probability of lightning-thundering damage to the transmitter.

## Order Code

MLT6300P Throw-in Submersible Level Transmitter							
Order Code: E.g.: MLT6300P-DT01A-N					Description		
MLT6300P-	X	X	X	-X	X	MLT6300P Intelligent Throw-in Liquid Level Transmitter	
Indicator	-A					None, without local indicator	
	-D					Yes, with local LCD indicator	
Installation	T					Thread installation, G1" default, if other size, please advise thread size	
	F					Flange installation, please advise flange size such as DN25, DN32...	
Range						Range	
						Accuracy	
						Mini. Range	
						Max. Range	
	01					0-0.5m	
02					0-1.0m	0-1.0m	±0.5%
03					0-3.5m	0-3.5m	±0.5%
04					0-10m	0-10m	±0.2%
Output	A					4-20ma, 2 wire, default	
	R					RS485 output, standard Modbus-RTU protocol	
	AR					4-20ma+RS485 output	
Special Requirement	-N					None	
	-S					with Lighting surge protection	
	-Ex					Exia IICT5 intrinsic safety	

### Notes:

1. Order code: MLT6300P-DT01A1-N, MLT630P level transmitter, with indicator, throw-in type, water-proof cable, range: 0-1.0mm, output; 4-20Ma, thread installation: G1"

2. Please advise me the density of the fluid in measuring statue (except water), which should be compatible with the material of the contacting part of transmitter



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