



SUMERIBLE, THROW-IN

Level Transmitter

— CORROSIVE-PROOF, High Temperature —

HIGH ACCURACY:0.2%, WITH INDICATOR OR NOT

Model No.: MLT6300S



General Specifications

GS 19A16D01-01EN

LEVEL TRANSMITTER SUBMERGIBLE, THROW-IN MLT6300S

Overview

MLT6300S 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 ideal solution.

Feature

- Range: 0-20m
- 4-20mA , RS485, 4-20ma+RS485 output
- Diffusion silicon sensor, digital PCB board car class design
- Lead cable: stainless steel 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

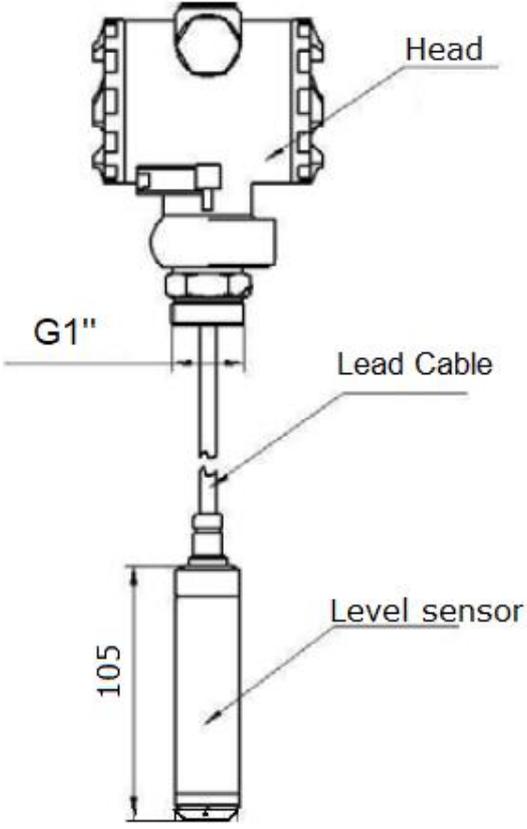
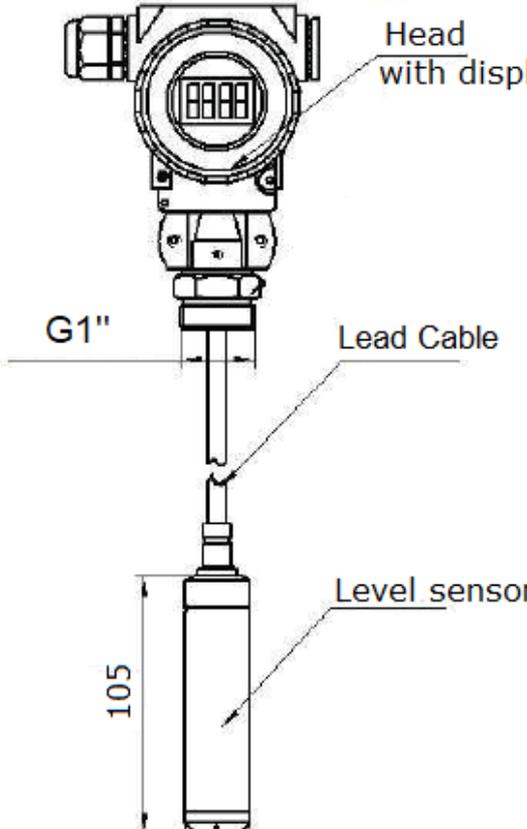
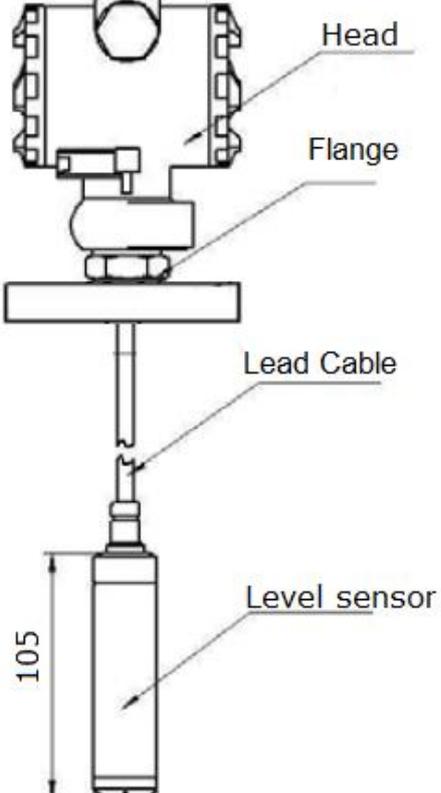
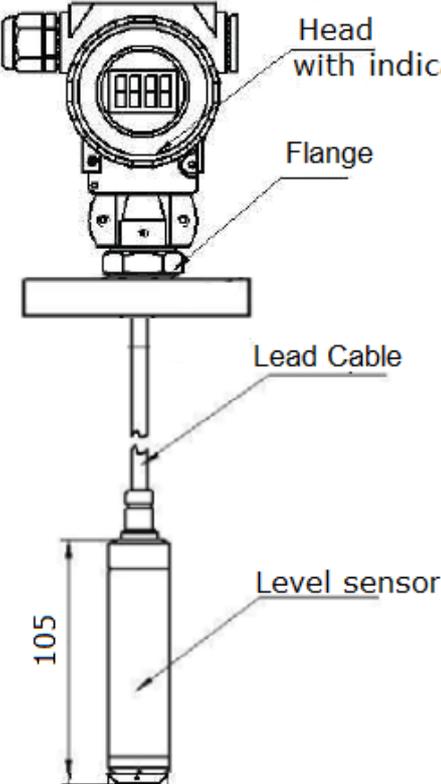


Used for:

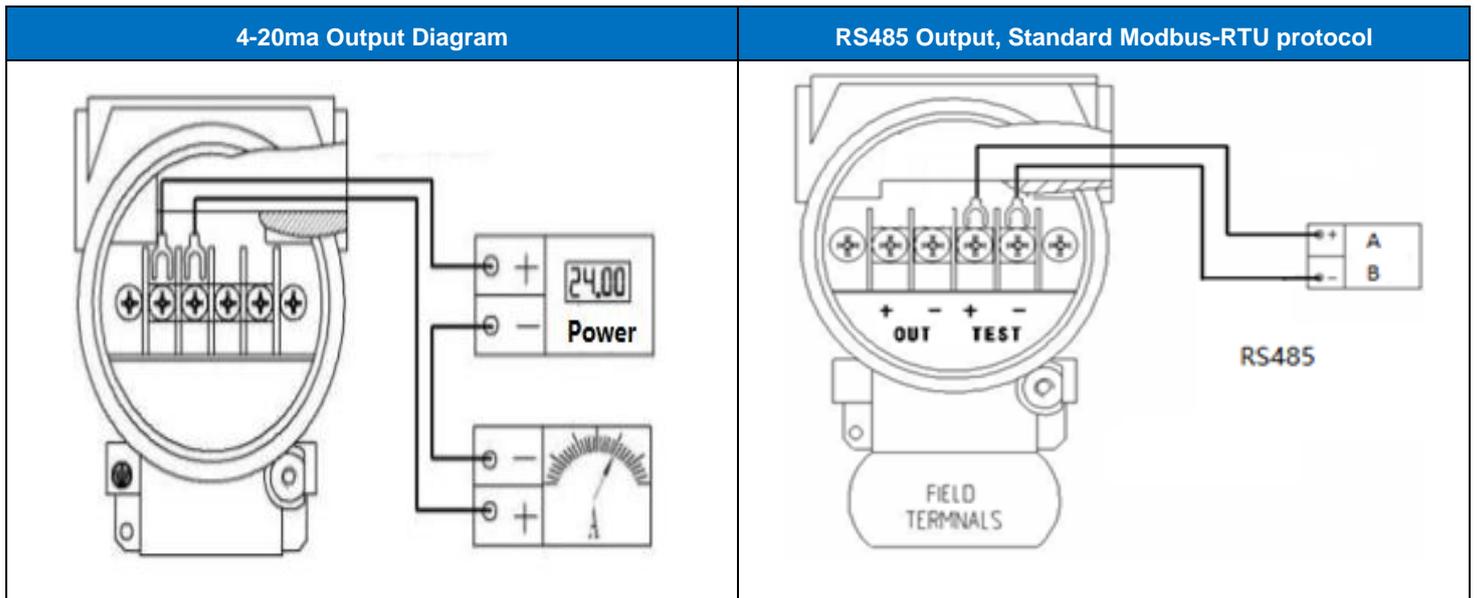
- Static pressure level, Liquid tanks, Petroleum, Chemical
- Pools, wells, rivers, seawater, lakes, marine

Process fluid	Liquids, corrosive liquids	Diaphragm Material	316LSS, diffuse silicon
	liquids compatible with 316LSS	Sensor (Probe) Material	ICr18Ni9Ti stainless steel
Range	0 to 0.5m and 0-20m	Lead Cable Material	Stainless steel
Accuracy	±0.2%, ±0.5%, ±0.1%	Housing Material	Aluminum alloy with spraying painted
Stability	0.25% %F. S per year	Indicator	4-1/2LCD digital display
Fluid temperature	0 to 300°C	Output	4-20mA, RS485, 4-20ma+rs485 output
Comp. temperature	0 to 70°C	Installation	Thread or Flange
Over pressure	twice of max. range	Thread, Flange Material	Stainless steel
Temperature effect	±1.5% FS (accuracy: ±0.2%)	Electrical Connector	M20X1.5
	±3.0% FS (accuracy: ±0.5%)	Power supply	14-36VDC (4-20mA,0-10mA output)
	±5.0% FS (accuracy: ±1.0%)		12-36VD (RS485 output)
Zero offset	<0.5% of output range	Standard Power Supply	24VDC±5%, ripple less than 1%
Zero & Range adjust	+20% (only indicator type)	Power effect	Less than 0.01%/V of output range
Range adjustable	between Min. & max. range	IP protection	IP 68 (transmitter), indicator(ip65)
Load effect	Negative	Electrical Safety	Exia IICT5 intrinsic safety
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)

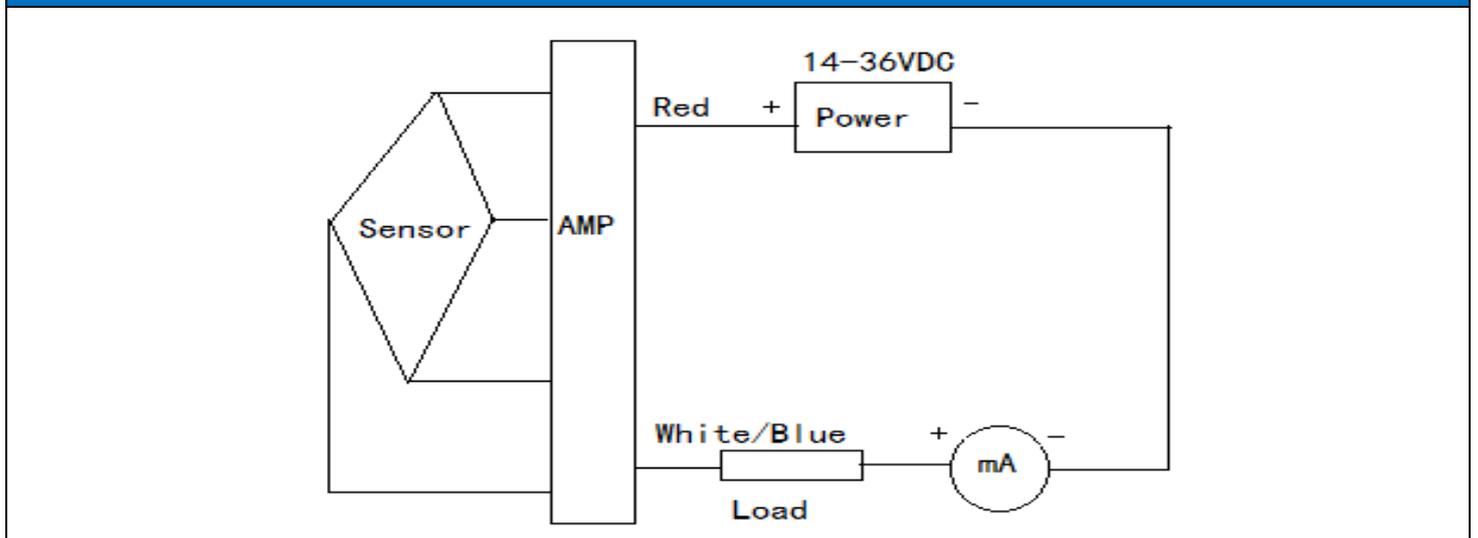
■ Size (mm)

MLT6300S-AT, Thread Installation	MLT6300S-DT, Thread Installation
 <p>Diagram showing the MLT6300S-AT sensor in thread installation. The sensor consists of a Head, a Lead Cable, and a Level sensor. The Head is connected to the Lead Cable via a G1" thread. The Level sensor is shown with a length of 105 mm.</p>	 <p>Diagram showing the MLT6300S-DT sensor in thread installation. The sensor consists of a Head with display, a Lead Cable, and a Level sensor. The Head with display is connected to the Lead Cable via a G1" thread. The Level sensor is shown with a length of 105 mm.</p>
MLT6300S-AF, Flange Installation	MLT6300S-DF, Flange Installation
 <p>Diagram showing the MLT6300S-AF sensor in flange installation. The sensor consists of a Head, a Flange, a Lead Cable, and a Level sensor. The Head and Flange are mounted on a horizontal surface. The Lead Cable connects the Head to the Level sensor, which has a length of 105 mm.</p>	 <p>Diagram showing the MLT6300S-DF sensor in flange installation. The sensor consists of a Head with indicator, a Flange, a Lead Cable, and a Level sensor. The Head with indicator and Flange are mounted on a horizontal surface. The Lead Cable connects the Head to the Level sensor, which has a length of 105 mm.</p>

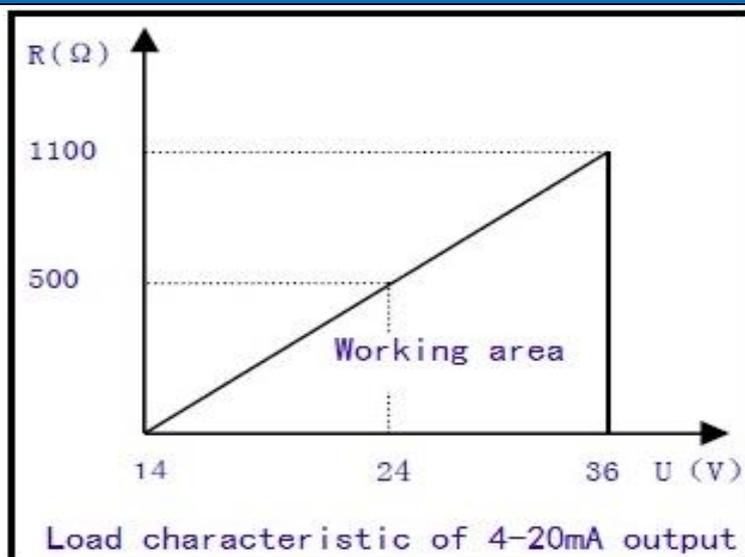
■ Diagram



E.g.:4-20mA Output diagram

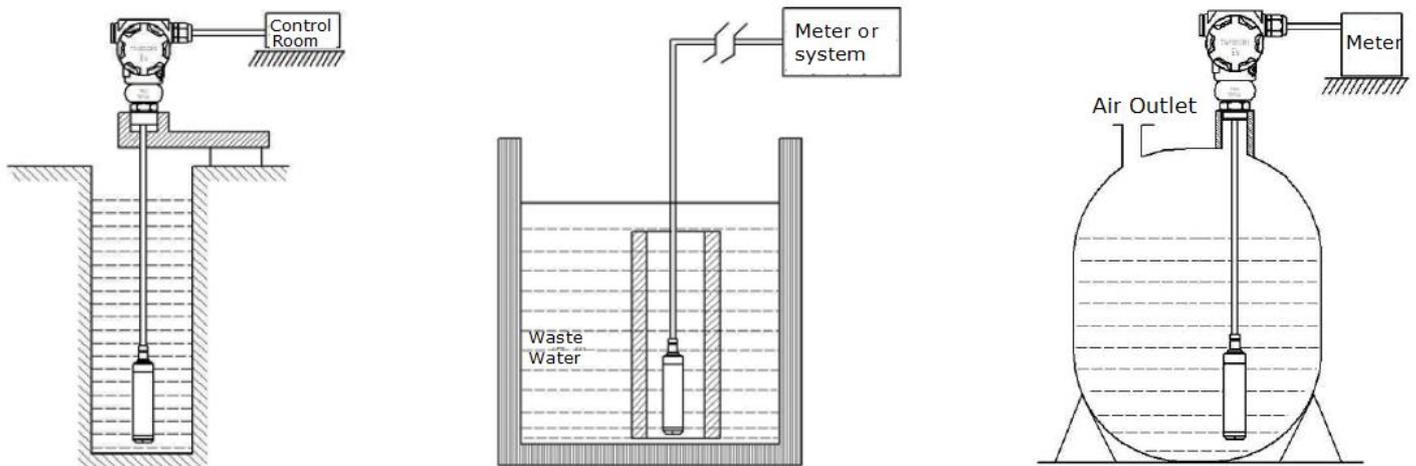


E.g. Load Resistor for 4-20mA Output



■ Installation Notes

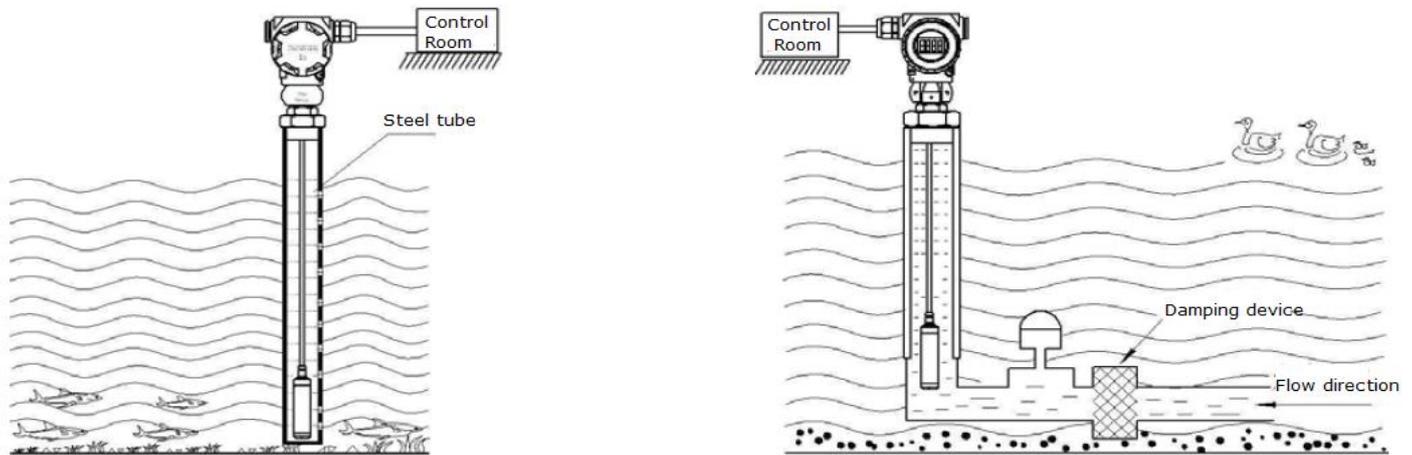
Installation in standing water (wells, pools, liquid tanks)



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 surge 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

MLT6300S Throw-in Submersible Level Transmitter						
Order Code: E.g.: MLT6300S-DT01A-NN					Description	
MLT6300S-	X	X	X	-X	X	MLT6300S Intelligent Throw-in Liquid Level Transmitter
Indicator	-A					None, without indicator
	-D					Yes, with LCD indicator
Installation	T					Thread installation, G1" default, if other size, please advise thread size
	F					Flange installation, please advise flange size
Range				Range		Accuracy
				Mini. Range	Max. Range	
	01			0-0.5m	0-1.0m	±1.0%
	02			0-1.0m	0-3.5m	±0.5%
	03			0-3.5m	0-10m	±0.2%
04			0-10m	0-20m	±0.2%	
Output	A			4-20ma, 2 wire, default		
	R			RS485 output, standard Modbus-RTU protocol		
	AR			4-20ma+RS485 output		
Lighting Surge Protection	-N			None, Standard		
	-S			with Lighting surge protection		
	-Ex			Exia IICT5 intrinsic safety		

Notes:

1. Order code: MLT6300S-DT01A-N, MLT6300S 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



Xiamen Madincos Automation Co., Ltd

Add.: No. C303, 3rd Floor, Kechuang Building, No.321 Torch Road, Torch Park, Torch High-tech Zone, Xiamen, China

URL: www.madincos.com

Email: info@madincos.com

Mobile: +86-17750003689