

SUBMERSIBLE LIQUID LEVEL TRANSMITTER LEET-M



SKU: LEET-M

SUBMERSIBLE LEVEL TRANSMITTER
LEET-M



LEET-M-H1.PNG

USER GUIDE FOR LEET-M

MODEL: LEET-M

Please read this user guide before installation or any further process with product.

SPECIFICATION

Range(FS)	Select 1, 5, 10, 20, 50, 100, 200mH2O
Overpressure	1.5 times FS
Accuracy	Range ≤ 50mH2O, accuracy +/-1.0% FS. Range > 50 mH2O, accuracy +/- 0.5% FS
Stability	Range > 10mH2O, ±0.2%FS/year. Range ≤ 10mH2O, 20mmH2O/yearexternal antenna
Thermal drift	Range > 10mH2O, ±0.02%FS/°C. Range ≤ 10mH2O, ±0.05%FS/°C
Working temperature	-10°C~70°C, -10°C~60°C(Ex ia)
Storage temperature	-20°C~85°C
Power supply	11V~28VDC
Output signal	4mA~20mADC(2-wire, loop powered)
Load	≤(U-11)/0.02Ω
Housing	Stainless steel 1Cr18Ni9Ti

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Diaphragm	Stainless steel 316L as standard, optional Tantalum
Cable material	φ7.5mm Polyethylene cable as standard, Optional Polyurethane cable
Cable length	2M additional of F5
Connector	-20 .. + 60 degC / 95%RH, non-condensing
Ex approval	Optional ATEX Ex ia IIC T6

FULL PACKAGE

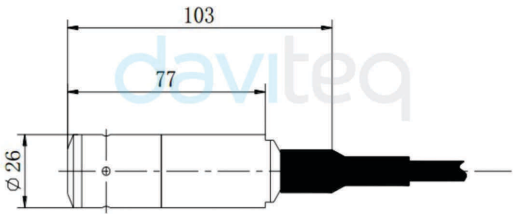
PRODUCT PACKAGE



LEET-M-H5.PNG

DIMENSIONS

DIMENSION DRAWINGS



LEET-M-H7.PNG

PIN ASSIGNMENT AND WIRING

WIRING

FLYING LEADS

Wire color	Connection
Black	+V
Red	0V/+OUT

M12-F CONNECTOR



1 - PWR+
4 - OUT

LEET-M-H8.PNG

STORAGE

The transmitter should be stored in dry and ventilative room with ambient temperature $-40^{\circ}\text{C} \sim 100^{\circ}\text{C}$, relative humidity no more than 85% and the air in the room without corrosive gas.

INSTALLATION

Attention before transmitter installation:

- a) The static pressure produced by the liquid at installation place exceeds the transmitter FS or not.
- b) The measuring liquid is compatible with the transmitter construction material or not.
- c) The measuring liquid may stop up the holes on the protection cap or not.

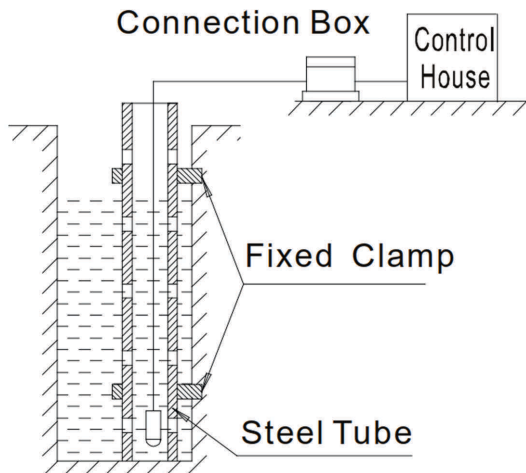
Installation Methods

The transmitter should be installed vertically down.

In the flowing water, the acted surface should be parallel with the water flowing direction.

1. Installation in the Static Water

To prevent shaking or destroying the transmitter when pumping, the transmitter should be put away from the liquid resource. Steel tube inserted method is usually used. The steel tube cannot be bent; the diameter of steel tube must be more than **30mm**. Several holes should be made at different heights on the tube so as to easily raising and make water flow smoothly. If necessary, wrap steel wire around transmitter to prevent breaking the cable by lifting with the steel wire.

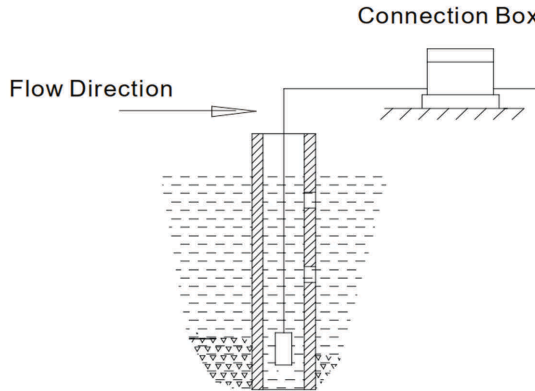


2. Installation in the Flowing Water

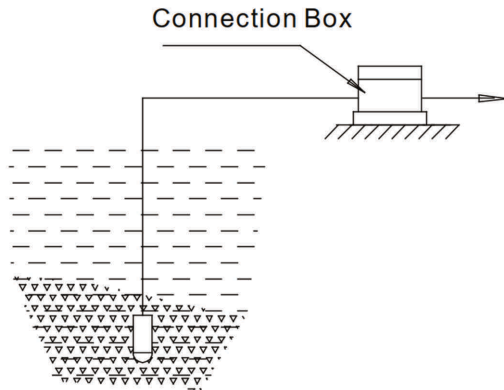
The water-calming equipments are required.

a. Insert a steel tube in the water channel

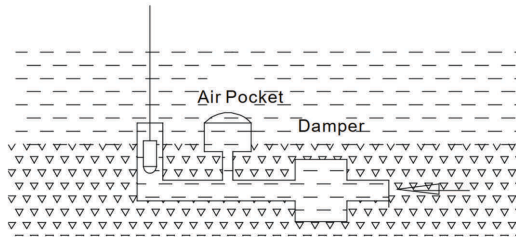
The steel tube wall should be thicker, and several holes should be made at different heights on the tube to damp waves and clear the water pressure influence.



b. Superficial burying is better in the sand and stone channel

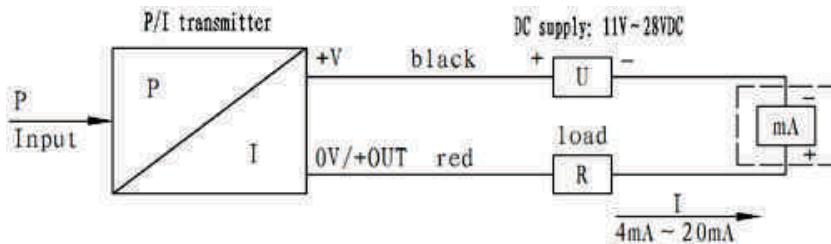


c. This method can not only clear water flowing pressure and wave influence, but also filter the sand and mud.



ELECTRICAL CONNECTION

Electrical connection method of transmitter with Two-wire 4mA~20mA DC output



WATER LEVEL MEASUREMENT IN
LAKE, RIVER, CANAL, TANK...



CONNECT WITH IoT GATEWAY



CONNECT WITH WIRELESS TRANSMITTER



THE REFERENCE TUBE INSTALLATION

There is a plastic tube in the transmitter special cable; the back pressure cavity of gauge sensor is connected to atmosphere by this tube. In the process of installation and operation, **be sure** to keep the reference tube be well connected with the atmosphere. Mud or sand should not be jammed into the reference tube.

Prevent water or other liquid going through the reference tube to **destroy** the transmitter.

OPERATION

The customer could operate the transmitter without adjustment.

Please be sure that the installation and electrical connection are correct or not before operation.

Connect the excitation and operate.

The transmitter could work at once as soon as it is connected with excitation, but the output signal could be more reliable after 30 minutes.

MAINTENANCE

LEET-M level transmitter does not need to be maintained regularly, but please pay attention to items as follow for better operating effect and reliability.

- a) Check wire connection is reliable or not, and the cable is broken and old or not.
- b) Clean the protection cap and diaphragm cavity periodically. **(take care!)**
- c) Don't violently pull cables or poke the diaphragm with metal or other hard objects.

FAULT DIAGNOSIS

LEET-M level transmitter is integrative full-sealed construction without movable parts inside, owning advantage of long-term stability and reliability.

If some failure occur, such as no output, output too big or too small and unreliable, please turn off the excitation firstly, then check the installation and wire connection conform with the operation manual or not, the excitation is correct or not and the reference tube is unobstructed or not.

If unsuccessful, the transmitter may be destroyed, please contact our company.

RESPONSIBILITY

Within one year from the delivery date, we shall repair or replace the instrument with any quality fault caused by material parts or our manufacturing technique free of charge. For non-quality malfunction during user's operation, we are in charge of repair. The material cost and the shuttle transportation fees should be borne by users.

CONTACT

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**Warranty service support is available from Monday to Friday
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08:00 AM - 12:00 AM

01:30 PM - 05:00 PM

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