# **IQLT-D** Diesel Level Transmitter



#### **Features**

- Integrated construction, without outer adjustment
- Reversed polarity protection
- Protection grade of sensor housing is IP68,protection grade of PD140 protection device is IP65.
- High reliable, stable in long term use

#### Introduction

IQLT-D Diesel Level Transmitter is a submersible piezoresistive level measuring instrument with all seal construction. High stable and reliable piezoresistive pressure sensor and high-precision circuit chosen. Whole temperature range of digital temperature compensation is done. Specialized cable is sealed with the housing. The air vented tube is inside of the cable. IQLT-D Diesel can be used for a long time in the liquid that is compatible with transmitter housing material.

IQLT-D Diesel Level Transmitter is small in size, light in weight, good stability in long term use. Customers do not need to adjust themselves. It can be used for level measurement and control in oil, chemical industry, medicine, metallurgy, power plant, mine, city water drainage and hydrology.

#### Specification

•	
Measuring range	0~2m Diesel Oil(proportion: 0.84~0.86)
Overpressure	2 times of FS(variation <0.3%)
Power supply	8~28V DC
Output	4~20mA DC(2-wire)
Accuracy®	0.5%FS
Total error <sup>®</sup>	1%(-10~80°C )
Stability error	0.5%FS/Year
Working Temperature range	-10~80°C
Storage Temperature range	-20~80°C
Load resistance	≤(U-8)/0.02Ω
Response time	≤3s
Insulation	≥100MΩ/100V
Protection	IP68
Relative Humidity	10%~95%RH
Vibration effect	3g(0~150Hz)
Life	10×10⁵times full scale
Intrinsic Explosion proof	Exia II BT6 Ga

#### Note:

stability etc.

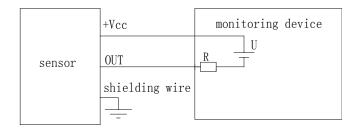
 Testing is under normal temperature (refer to 20°C ± 5°C); non-linearity. Accuracy is rms root-mean-square of non-linearity, repeatability, hysteresis.
Within the temperature range, it includes total index of non-linearity, repeatability, hysteresis, zero drift, sensitivity drift, zero short-term

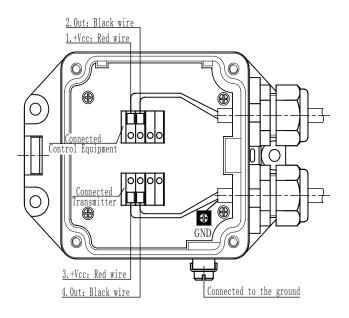
#### **Construction material**

- Housing: Stainless Steel 316L
- Cable: Polyurethane cable with air vented tube
- Diaphragm: Stainless Steel 316L
- Connection Device: PBT Engineering Plastics PBT

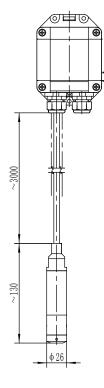
#### **Electrical Connection**

Wire Color	Electrical definition
Red	+VCC
Black	OUT

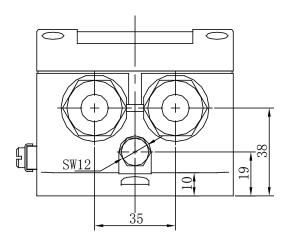


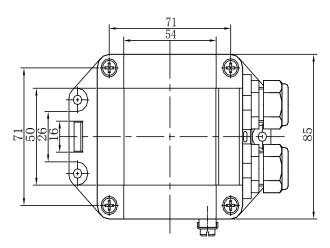


#### Outline Construction (Unit: mm)



IQLT-D Diesel Lever Transmitter





PD140 Lightning Protection Device

#### **Order Guide**

IQLT-D Dies	el	Lever transmitter						
	rang	ge	[0~2 m Diesel] L L: cable length, when choosing, suggest L - X = (1 ~ 2) m					
			Cod	le	Output si	gnal		
			E		4~20mA[	C		
				Cada		Structure material		
					Code	Diaphragm	Connection	Housing
					24	316L SS	316L SS	316LSS
				_		Code		Others
						Yd	PD140 Lightr	ning Protection device
						F	*Flange insta	llation assembly
						FB	*Flange plate	installation
						ZH	*Rack installa	ition assembly
						W	*Bent pipe ins	stallation components
IQLT-D Diesel [	0∼2m dies	el] 3	E		24	YdFB	whole spec.	

#### Notes

1.Measured media should be compatible with transmitter material, and the density of the measured media should be clearly indicated (except water).

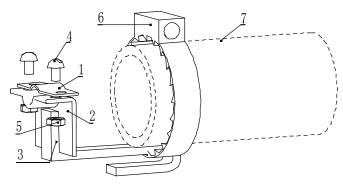
- 2. It uses Polyurethane cable.
- 3. Cable length is as per the requirement of clients.
- 4. If clients has special requirement, please contact us.

### Appendix

#### Flange installation 2 Connected Connected

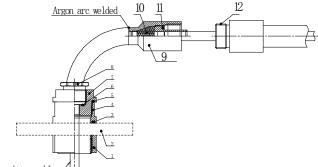
1	IQLT-D Diesel Level Transmitter
2	Flange mounting kit
3	PD140 Lightning Protection Device
4	Permanent magnet absorbing installation
5	Grounding cable assembly
6	Transmitter specialized cable
7	15m signal cable
8	Bracket mounting kit

Rack installation assembly diagram:



1	Stainless steel clip
2	Bracket cable saddle
3	Rack support arm
4	M3 bolt
5	M3 nut
6	Steel cable
7	Air-vented tube

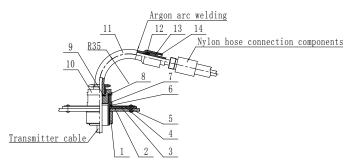
Bent pipe installation components:



Transmitter cable

1	M30×1nut
2	Tank flange
3	Type O ring ( 28×2.65)
4	Flangeset
5	Type Ø ring ( 28×1. 8) ⊘
6	Gasket (cylindrical 16.5mm, inner circle 13mm, thickness 1.4mm)
7	Flange bushing
8	Welding bend component
9	Lock line seat
10	Rubber ring
11	Locking ring
12	Nylon hose connection components

installation:



1	M30x1 nut
2	fuel tank
3	Sealed gasket
4	flange plate
5	Enclosed tonsil loose core rivet
6	O ring(⊘28x2.65)
7	Flange cover
8	O ring (⊘28x1.8)
9	Sealed gasket (External circle ⊘16.5, internal circle ⊘13, thickness 1.4
10	Flange center tube
11	Welded bent pipe components
12	Cable locker base
13	Rubber ring
14	Lines seat

## Flange installation assembly diagram: