

## Description

ULB-I digital level transmitter is fully sealed submersible intelligent level measuring instrument. Based on silicon piezoresistive technology, this product is designed for liquid level measurement by using silicon die with good stability and processing electric circuit of high accuracy smart transmitter, and using precise digital temperature compensation technology and the non-linearity revision technology. The Waterproof cable with vent hose of this transmitter is sealed connected with its housing, it is suitable for submersible applications.

The output of ULB-I is digital signal, this makes this transmitter carry on transmission with computer directly. ULB-I intelligent has already widely used for water & other liquid level measurement and control in scientific research domain, and petroleum, chemical industry, medicine, water conservation etc.



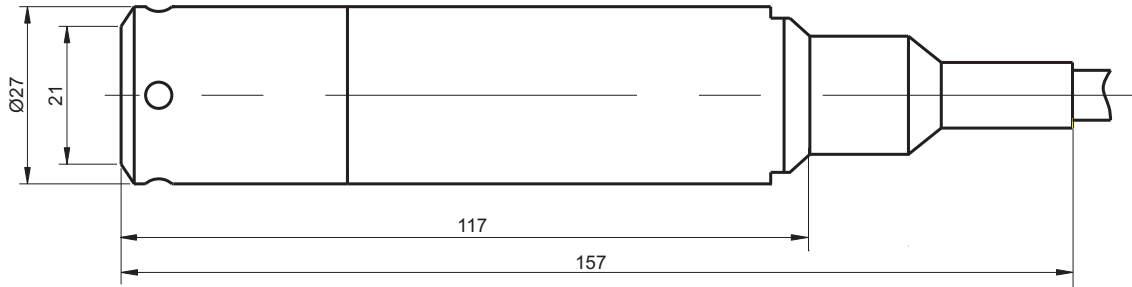
## Features

- Data networking gathering
- Advanced circuit design and software design
- HART protocol or MODBUS protocol (RS485 interface)
- Full stainless steel structure, small profile, light weight
- Digital communication technology

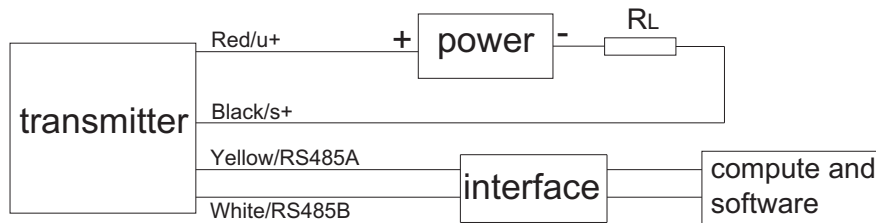
## Specifications

pressure medium	gas or liquid compatible to wetted stainless steel
pressure ranges	0~1mH <sub>2</sub> O...200mH <sub>2</sub> O
overload pressure	150%FS
output signal	4~20mA
communications	MODBUS protocol (RS485 interface) or HART protocol
accuracy	0.1%FS, 0.25%FS (standard), 0.5%FS
load resistance	$RL = (U - 12V) / 0.02A$ (4~20mA current output) U—loop voltage (V)
long-term stability	<0.2%FS/year
supply voltage	8~28VDC (RS485 interface), 12~30VDC (HART protocol)
compensated temperature range	0~+70°C
operating temperature range	-10~+80°C
storage temperature range	-40~+120°C
temperature coefficient of zero	0.1%FS/10°C
temperature coefficient of span	0.1%FS/10°C
insulation resistance	100MΩ@50VDC
electrical connection	Water-proof connector with Φ7.5mm Polyethylene cable with vent hose
material of wetted part and housing	1Cr18Ni9Ti
material of pressure membrane	316L

## Dimensions



## Electrical connection



Electrical connection for Rs485 interface

## Ordering code

ULB-I				
ULB-I	range	measuring range: 0~1mH <sub>2</sub> O...200mH <sub>2</sub> O		
	(0~X)Lbar	X: actual measuring range L: cable length, suggest L-X= (1~2)m		
		code	output and communications	
		O	4~20mA	
		R	MODBUS protocol (RS485 interface)	
		H	HART protocol	
			code	accuracy
			B	0.1%FS
			C	0.25%FS
			D	0.5%FS
			code	structure
			Y	integrated structure
			D	divided structure
			F	flange
ULB-I	(0~5mH <sub>2</sub> O)6	R	C	Y

\*please indicate on the ordersheet if the user have any special requirement.