

ISEN-YL10/10S/20/20S

Compact Pressure Transmitter

The pressure transmitter uses a piezoresistive sensor with a stainless steel isolation diaphragm as the signal measurement element, and is automatically tested by a computer and the zero point and sensitivity temperature compensation over a wide temperature range is performed using a laser resistance adjustment process. The amplifier circuit is located in the stainless steel housing and converts the sensor signal into a standard output signal.

The entire product has undergone rigorous testing and aging of components, semi-finished products and finished products. The product is widely used in on-site pressure measurement and control in industrial processes such as petroleum, chemical, metallurgy, electric power, and hydrology for its excellent reliability, wide adaptability, product flexibility and diversity.

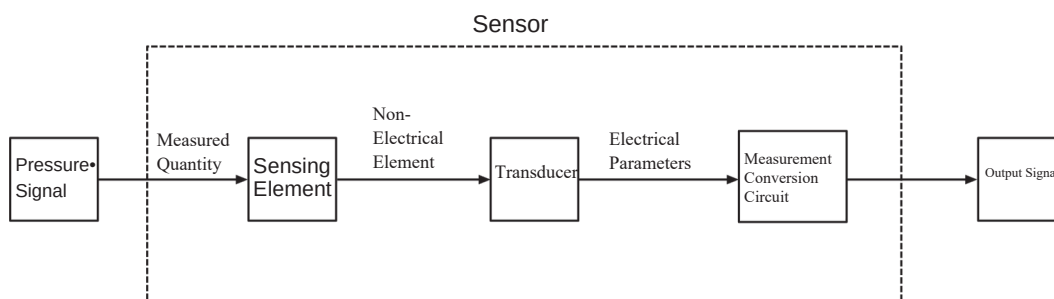


Product Feature

1. 316L stainless steel isolation diaphragm structure
2. High precision, all stainless steel structure
3. Strong anti-interference, good long-term stability
4. Anti-vibration and shock resistance
5. Suitable for measuring normal temperature media, can work stably for a long time
6. Diversified forms and structures, easy to install and use
7. Wide range, can measure absolute pressure, gauge pressure and sealed gauge pressure

Working Principle

The pressure of the medium to be measured acts directly on the diaphragm of the sensor, causing the diaphragm to produce a micro-displacement proportional to the medium pressure, causing the resistance value of the sensor to change, and the electronic circuit detects this change and converts and outputs a standard measurement signal corresponding to this pressure.



Pressure Transmitter Schematic Diagram

Application Field

Pressure transmitters are generally used for pressure measurement in pipelines, boilers, and some sealed reactors, such as constant pressure water supply, water pumping stations, water supply and drainage treatment, circulating water monitoring, fire water monitoring, wastewater treatment, municipal sewage treatment, deep well water level, water tank water level, high-rise pool, geothermal well, mine, industrial pool, oil pool, reservoir and river water level monitoring, etc.

Product Line



1 ISEN-YL10 Hirschmann digital display



2 ISEN-YL10 Hirschmann digital steel barrel



3 ISEN-YL10 Sman standard thread type



4 ISEN-YL10S Hirschmann Compact



5 ISEN-YL10 Hirschmann chuck type



6 ISEN-YL10 Hirschmann non-display high temperature type



7 ISEN-YL10 Hirschmann digital high temperature type



8 ISEN-YL10 Hirschmann flange with base



9 ISEN-YL10 Hirschmann differential pressure type



10 ISEN-YL10 Hirschmann flat film type



11 ISEN-YL20 Waterproof Type



12 ISEN-YL20 Aviation plug type

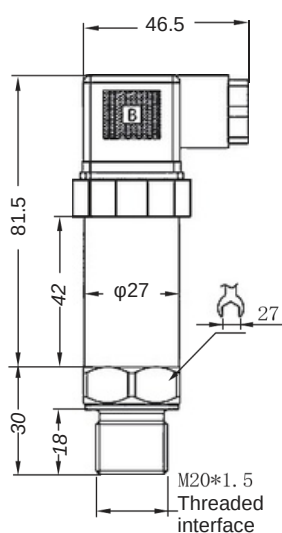


13 ISEN-YL20 All stainless steel explosion-proof

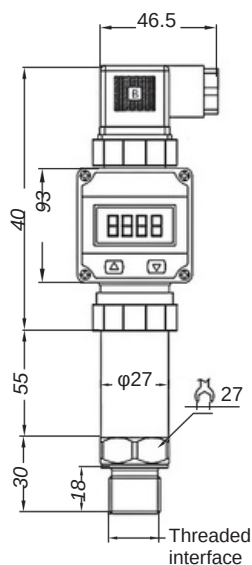
Technical Specification

Measuring Range	-0.1- 0~100MPa	Accuracy	$\leq \pm 0.25\%FS$
Long-Term stability	$\leq 0.2\%$ / year	Overload	200%FS
Power Supply	24V $\pm$ 20%	Electrical Connection	Hirschman / Aviation
Ingress Protection	IP65	Thread Size	M20*1.5
Ambient Temperature	-10°C~80°C	Temp Coefficient	$\pm 0.02\%FS/^{\circ}C$
Storage Temperature	-40°C~85°C	Humidity	0~80%

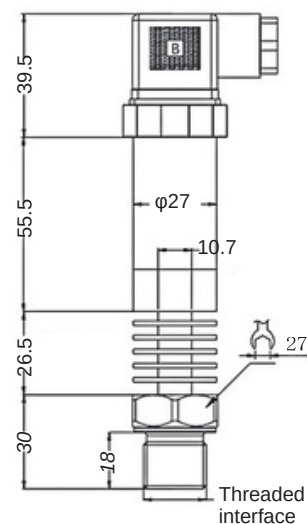
External dimensions diagram (reference)



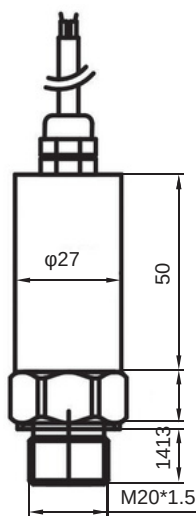
- Standard Thread Type



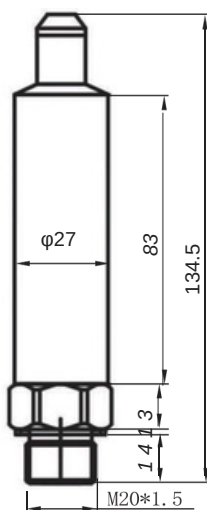
- Digital Display Type



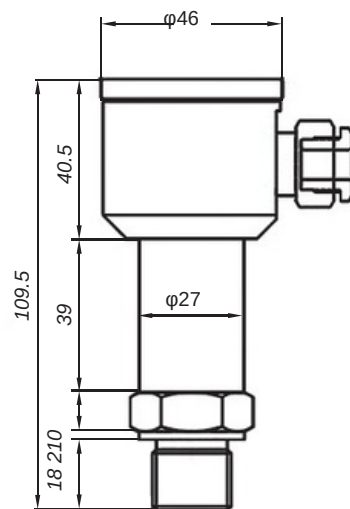
- High-Temp Type



- Straight Outlet Type



- Waterproof Outlet(IP68)



- All stainless steel explosion-proof type

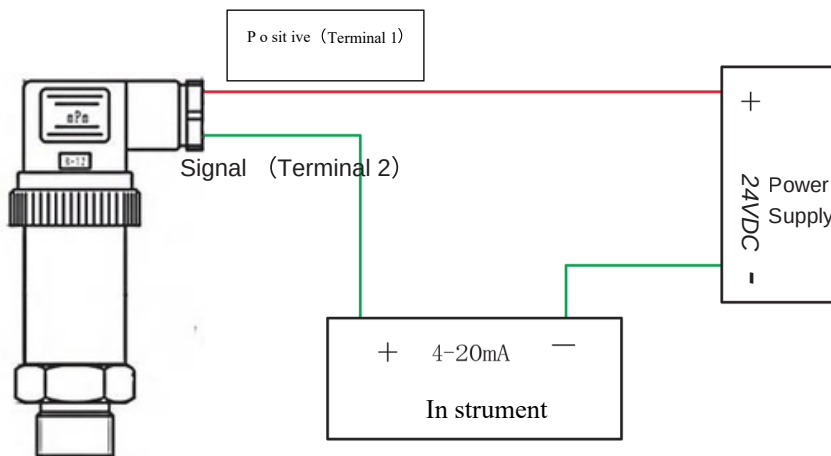
Product Installation

It can be directly installed on the hydraulic pipeline through the pressure pipe joint (DIN3582 external thread M20*1.5) (other size joints can be specified when ordering). In critical applications (such as severe vibration or impact), the pressure pipe joint can be mechanically decoupled through a micro hose.

Wiring Guide

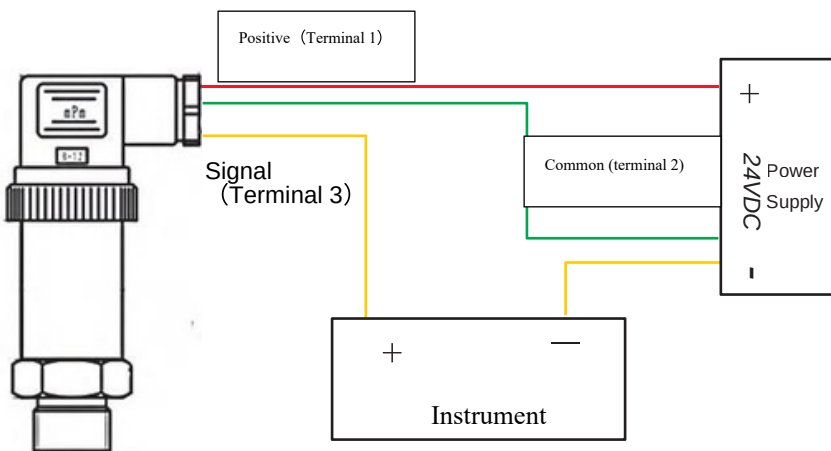
Two-wire connection method (Hissmann connector type):

Red wire: 24VDC
Green wire: current output



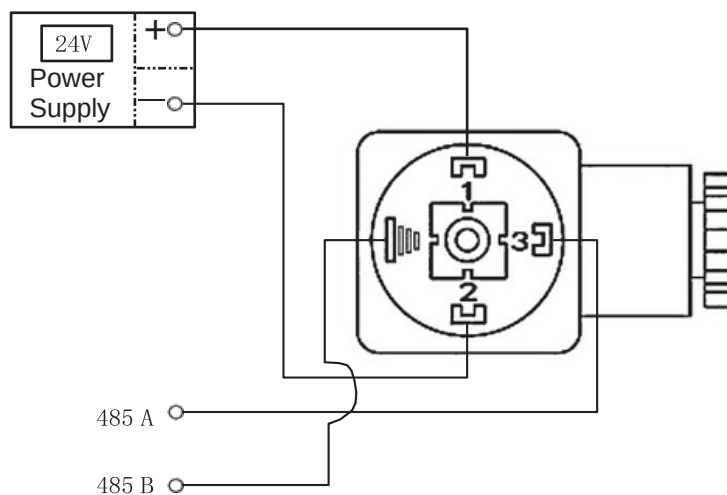
Three-wire connection method (Hissmann connector type):

Red wire: 24VDC
Green wire: Power supply -
Yellow wire: Voltage output +



RS485 output wiring (Hissman connector type):

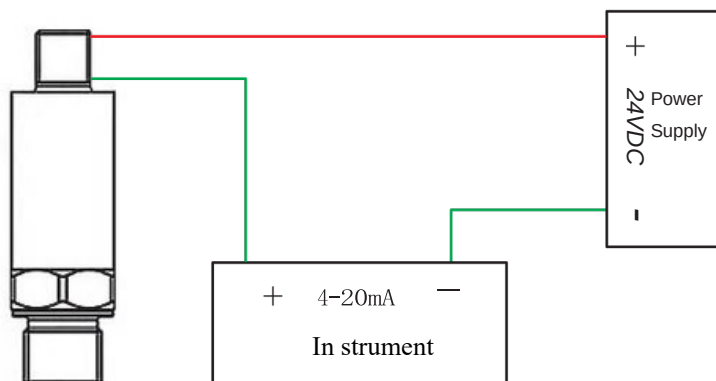
- 1: Power Supply +
- 2: Power Supply -
- 3: RS485A
- RS485B



Wiring Guide (Continued)

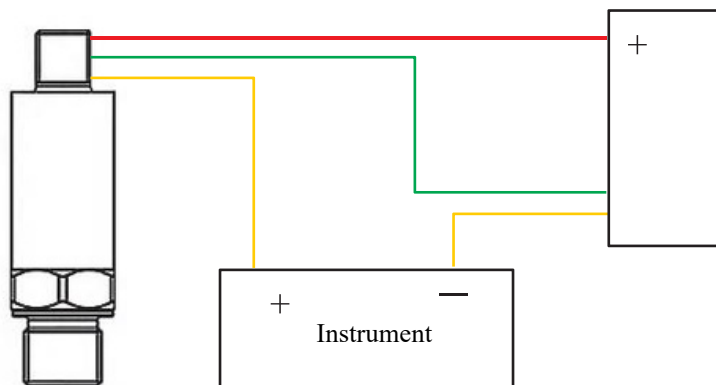
• Two-wire current output (aviation type):

Red wire: 24VDC
positive
Green wire:
current output



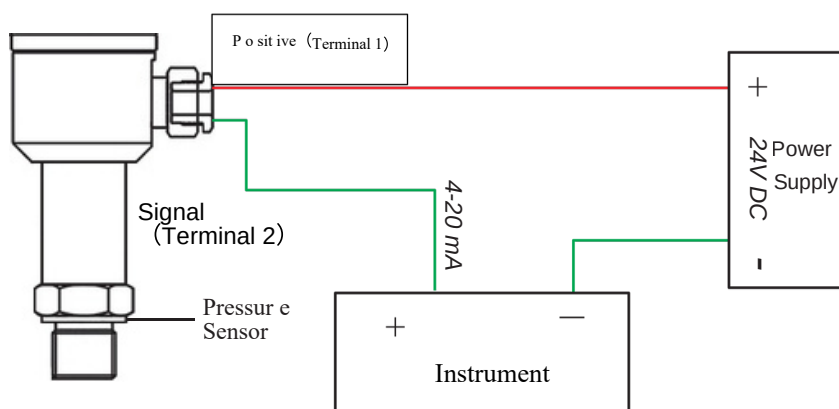
• Line voltage output (aviation line type):

Red wire: 24VDC positive
Green wire: common negative
Yellow wire: voltage output



• Two-wire connection (fully stainless steel explosion-proof type):

Pin 1: 24VDC•
Pin 2: Signal



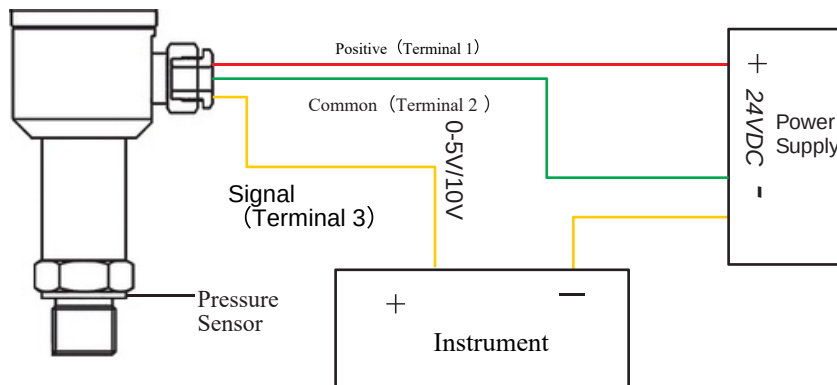
Wiring Guide (Continued)

- Three-wire voltage output wiring diagram (all stainless steel explosion-proof type):

Pin 1: 24VDC

Pin 2: GND

Pin 3: Signal



Selection Chart

Model		Product Name
ISEN-YL ()		Compact Pressure Transmitter
Code	Configuration Type	
10	Standard HesmanType	
10S	Compact Hesman Type	
20	Standard Aviation Type	
20S	Compact Aviation Type	
	Cod e	Explosion Type
	P	Standard (Non-E xplosion Proof)
	E	Explosion-Proof
	F	Corr osion-Resistant
	Code	Measurement Type
	G	Gauge Pressure
	A	Absolute Pressure
	B	Sealed Pressure
	P	Flush Diaphragm Type
	Cod e	Pressure R ange
	0	-0.1~0MPa
	1	0~10MPa
	2	0~20MPa
	3	0~30MPa
	4	0~40MPa
	5	Above 50MPa

Selection Chart (Continued)

	Code	Connection Method
	S1	G1/4"Threaded
	S2	G1/2"Threaded
	S3	M20*1.5
	F	DN25 Flange
	T	Clamp Connection
	Y	Customizable
	Code	Connection Material
	4	Stainless Steel SUS304
	6	Stainless Steel SUS316L
	F	Teflon PTFE
	Code	Temperature Range
	T	-20~80°C
	H	-20~200°C
	Code	Output Signal
	1	4~20mA 2 wire
	2	0~5V 3 wire
	3	0~10VDC 3 wire
	4	24VDC 3 wire
	5	RS485 Communication
	Code	Diaphragm Material
	K	Diffused Silicon(Default)
	T	Ceramic Piezoresistive
	P	Ceramic Capacitive
	Code	Display Type
	0	No Display
	1	With Display
	Code	Electrical Connection
	H	Hesman Connector
	A	Aviation Connector
	D	Cable Outlet

Selection Example

Example: ISEN-YL10-PA2S24T1K1H, compact pressure transmitter, standard Hirschman ntype, standard (non-explosion-proof), measuring form absolute pressure, 0~20MPa, connection mode interface thread G1/2", connection material stainless steel SUS304, temperature range -20~80°C, output signal 4~20mA two-wire, diaphragm material diffused silicon (default), display type with display, electrical interface Hirschmann interface .



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