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SM25Y05 Series Pressure Transmitter

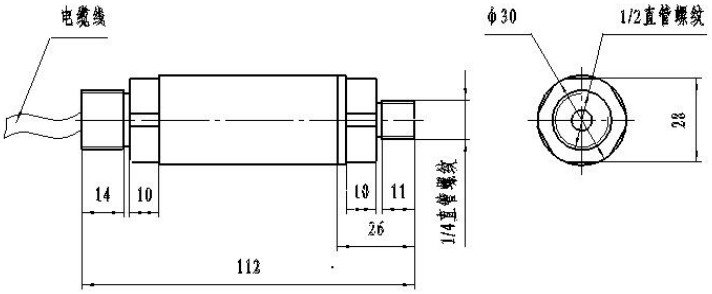
Description

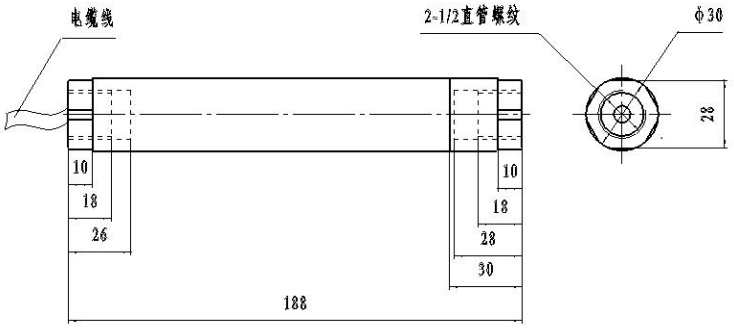
This product adopts imported diaphragm-type diffused silicon chip and a sturdy and reliable all-stainless steel structure. It can directly contact corrosive media (gas, liquid, vapor) and can be used for negative pressure measurement. It enables automatic measurement and control in production processes. It can be widely used in petroleum, chemical, metallurgical, electric power, light industry, machinery, and environmental protection fields.

Characteristics：

High precision, good stability, small size, light weight, easy installation, and fast response speed.

Dimensions （In mm. 1mm=0.03937 inches）





Specification：

Type	Technical parameters			Unit
Nominal load range	Gauge Pressure (referenced to ambient atmospheric pressure) -100kPa... -10Pa～0、0～10KPa～3.5MPa			
	Absolute Pressure (calibrated against vacuum) 0～10kPa... 35MPa			
	Sealed Reference Pressure (calibrated against ambient pressure) 0～100kPa...40MPa...500MPa			
Overload Capacity	200			%FS
Pressure Type	Gauge (G), Absolute (A), Sealed (S)			
Measuring Medium	All corrosive media compatible with 316 stainless steel			
Accuracy	0.1	0.25	0.5	%FS
Long-Term Stability	0.1	0.2	0.3	%FS/year
Zero Temperature Effect	0.1	0.2	0.3	%FS/10℃
Sensitivity Temperature Effect	0.1	0.2	0.3	%FS/10℃
Zero Drift	< 0．1			%FS/4h
Operating Temperature	-40～85			℃
Power Supply	18～36			VDC
Output	4～20			mA
Load Capacity	250～1200 （Rl=50×（Ul-12））			Ω
Electrical Connection	Plug-in connector or shielded cable			
Pressure Port	1/2" or 1/4" pipe thread, or special interface			
Housing Material	Satinless steel			

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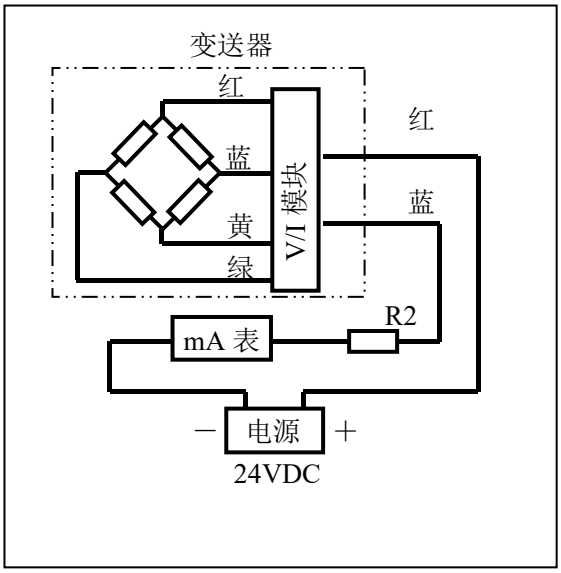
Circuit Diagram ：



Installation Instructions：

(1) The transmitter can be mounted directly on a pipeline (or on the wall of a vessel) via its 1/2" or 1/4" threaded pressure port; no separate mounting bracket is required.

(2) When the medium temperature is high, use an impulse line or other cooling device to bring the temperature down to within the transmitter ’ s operating range.

(3) For outdoor installation, position the transmitter in a well-ventilated, dry location. Avoid direct strong sunlight and rain, which can degrade performance or cause failures.

(4) Protect the signal cable. In industrial environments, route the cable inside flexible conduit (e.g., interlocked armor) or metal tubing, or suspend it overhead.

If your application has special requirements, please specify them when ordering. We can customize the product to suit any particular site conditions.

5. Precautions：

The transmitter housing and cable entries are factory-sealed. Do not open them.