



Overview:

The HPM180 general purpose pressure transmitter uses a high precision and highly stable diffused silicon pressure core as a sensitive element, assembled and produced through a strict process. The HPM180 is assembled and produced by a strict process. The built-in signal conditioning circuitry converts the pressure sensor signal into a standard current or voltage signal output, which can be directly connected to computers, control instruments, display instruments, etc. It can be directly connected to computers, control instruments, display instruments, etc. The product has a stainless steel robust housing, a variety of output signals stainless steel housing, various output signals, wide temperature compensation, strong anti-interference, good long-term stability. The product is modular in design and has a wide range of output signals. The product is modular in design and has a variety of electrical interface combinations. A wide range of options is available to meet almost any pressure measurement requirement in industry. A wide range of options is available to meet almost all pressure measurement requirements in industry.

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Features:

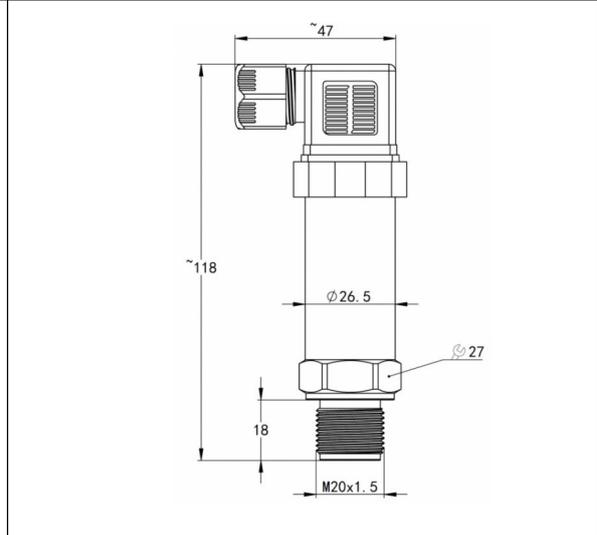
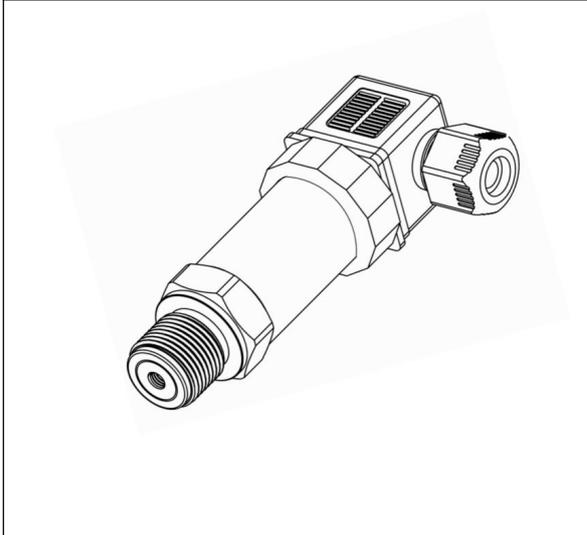
- Wide range for measuring gauge, absolute and sealed gauge pressures
- Universal use for oil, water and gas
- Various pressure interfaces available
- Various output signals available
- Wide temperature range compensation, small temperature drift
- Good long-term stability

Technical Parameters:

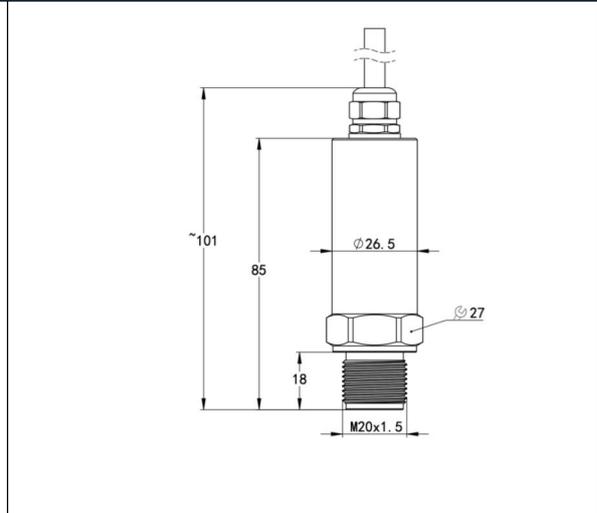
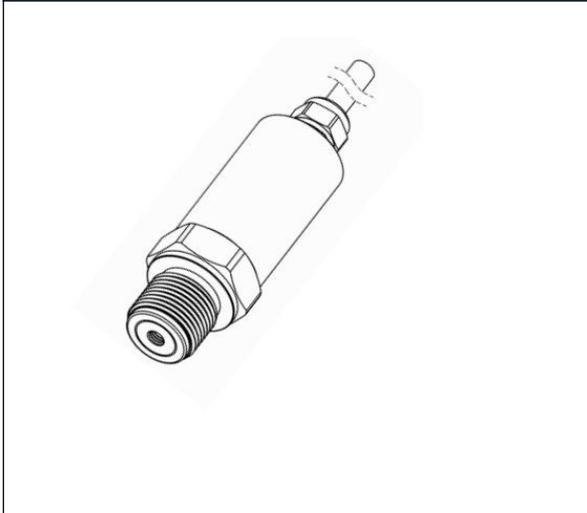
Pressure Range(Gauge pressure)	-100kPa...0 ~ 10kPa...100MPa
Pressure Range(Absolute pressure)	0 ~ 10kPa...10MPa
Overload	1.5x of full scale
Measuring medium	various liquid, gas or steam compatible with 304 or 316L stainless steel
Output Signal	4~20mA,4~20mA+Hart, 0-5V,0-10V
Accuracy	±0.5%FS(default) ±0.2%FS (Customized)
Long-term Stability	±0.25%FS/year
Current resolution	≤0.01%
Response time	about 1ms
Boot time	≤200ms
Compensation temperature range	0 ~ 70°C (0.5 % accuracy) -10 ~ 80°C (0.2% accuracy) -20 ~ 85°C (0.1% accuracy)
Temperature Coefficient of Zero	±1.0%FS/°C (Reference 25°C)
Temperature Coefficient of Full Scale	±1.0%FS/°C (Reference 25°C)
Ambient Temperature	-40 ~ 100°C
Medium Temperature	-40 ~ 125°C
Storage Temperature	-40 ~ 85°C
Protection Grade	IP65(DIN43650); IP67(Cable outlet)
Vibration	10g(20~2000Hz)
Impact resistance	100g(11ms)
Insulation resistance	>20MΩ @500VDC
Dielectric strength	<2mA @ 500VAC 1min

Structure Drawing (unit:mm)

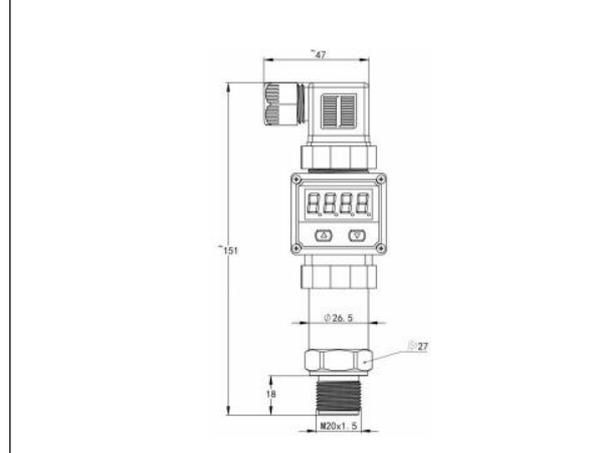
Hirschmann/DIN43650

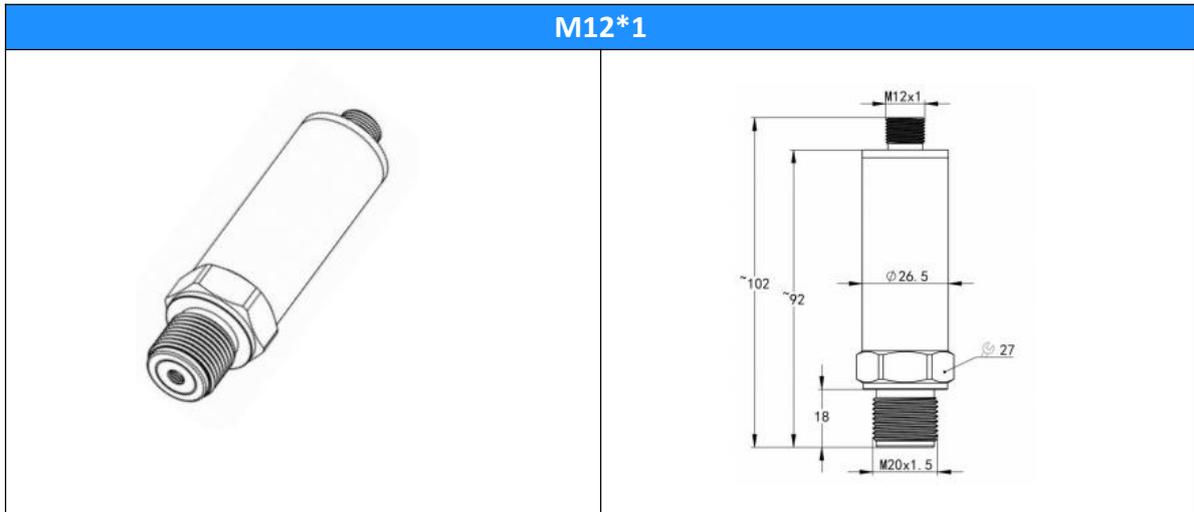


Cable outlet

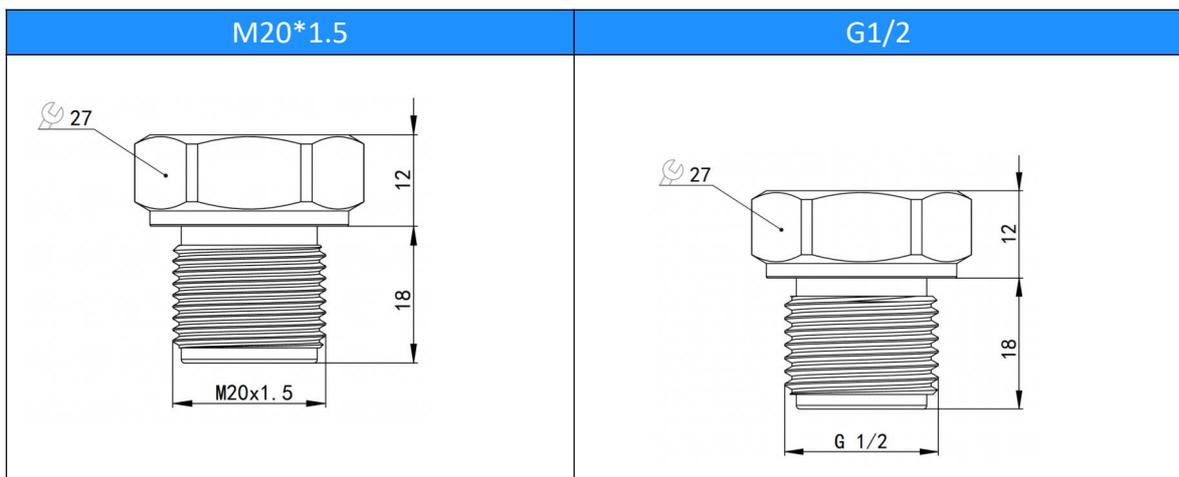


Hirschmann/DIN43650 with LED Display

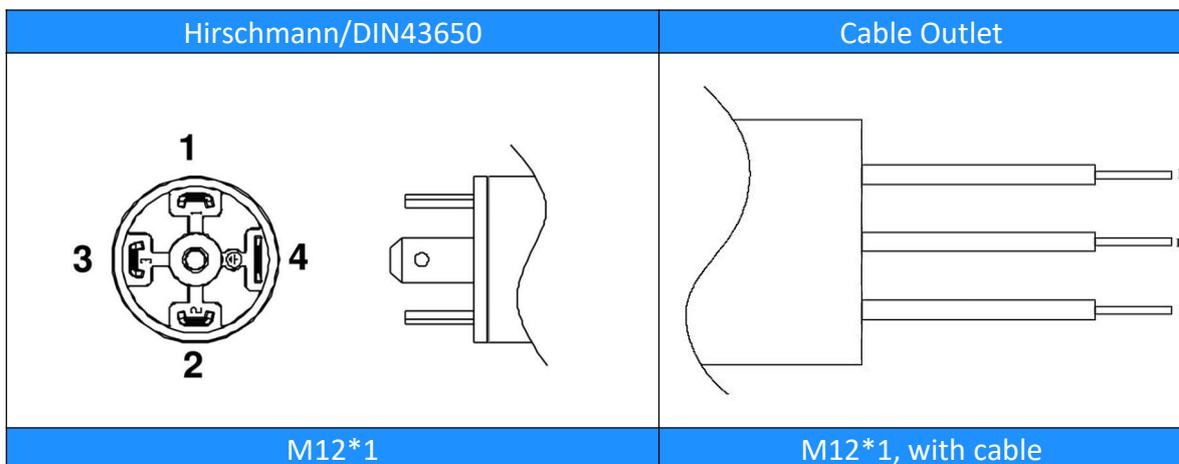


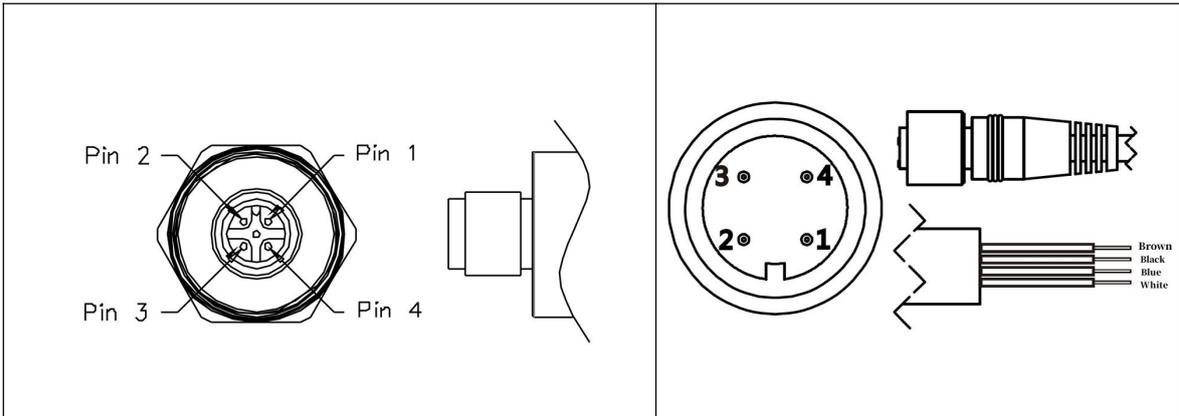


Process connection:



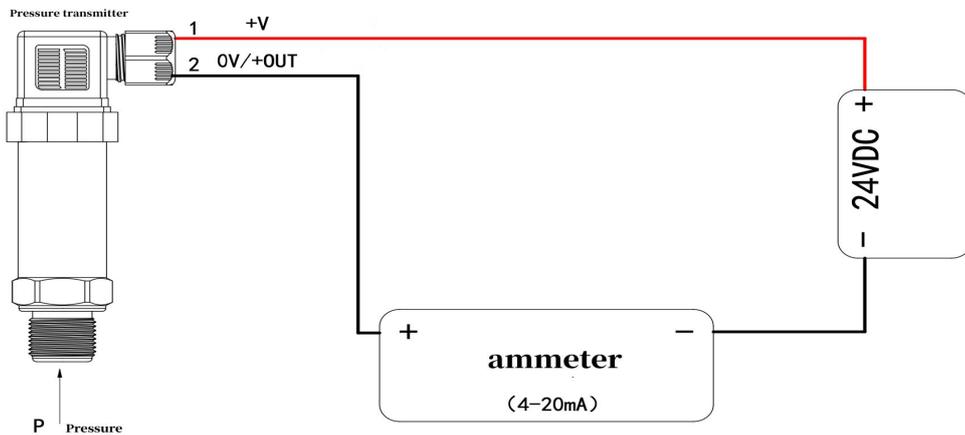
Electrical Connection:



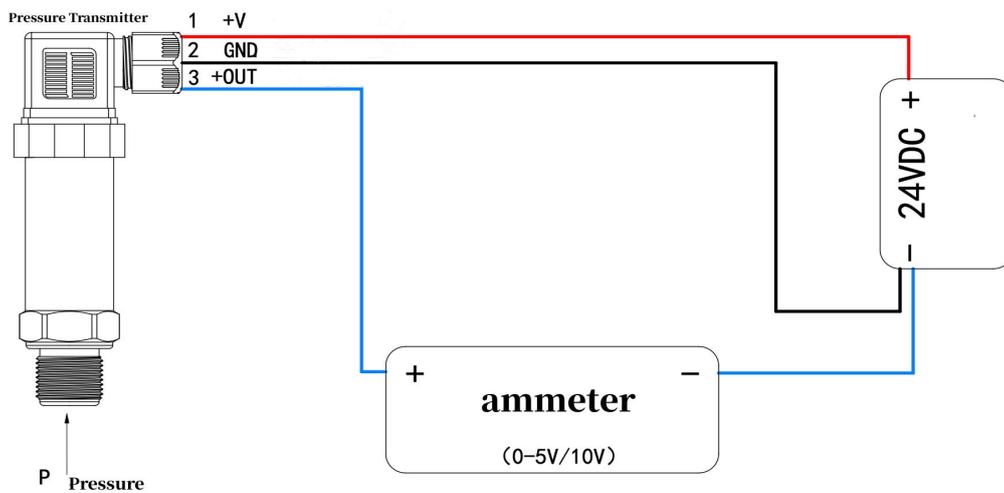


Electrical Connection Diagram:

Two-wire current



Three-wire voltage



Ordering Guide:

Model Name	Type							
HPM180	Universal Pressure Transmitter							
	Pressure (X ₁ ~X ₂)kPa	Measuring Fill out X directly						
		Code	Output					
		B1	(4~20)mA					
		B7	RS485					
		B8	HART					
		B3	(0~10)V					
		B4	(0~5)V					
		B5	(1~5)V					
		B15	(1~10)V					
		Code	Power					
		V1	24VDC					
		V3	3.6V lithium battery					
		Code	Pressure					
		P1	M20×1.5					
		G12	G1/2 external					
		G14	G1/4 external					
		Code	Electrical					
		C1	Hirschmann					
		C2	Cable outlet					
		C5	M12×1					
		C5X	M12×1 with cable					
		Code	Diaphragm					
		M1	316L					
		M2	Titanium					
		M3	Tantalum					
		M4	Hastelloy					
		Code	Pressure port					
		S4	304					
		S6	316L					
		Code	Additional Functions					
		G	Gauge pressure(Default)					
		S	Sealed gauge pressure					
		A	Absolute pressure					
		NB	NBR Nitrile seal (default)					
		FK	FKM Viton sealing ring					
		ED	EPDM sealing ring					
		HB	HNBR Hydrogenated nitrile seal ring					
		D1	LED display					
		D2	LCD display					
		J05	0.05% accuracy					
		J1	0.1% accuracy					
		J2	0.2% accuracy					
		J3	0.3% accuracy					
		J5	0.5% accuracy(Default)					
EX: HPM180	(0~200)kPa	B1	V1	P1	C1	M1	S4	G NB J5