

## HPM240 Intelligent Digital Pressure Transmitter



Nanjing Hangjia Electronic Technology Co., Ltd.

## Overview

HPM240 Intelligent Digital Display Pressure Transmitter is a multifunctional digital instrument. It adopts proven and reliable technology of silicon sensor and it is designed with advanced SCM(single chip microcomputer)technology and digital conversion technology. The core component that single chip microcomputer with strong function and high-speed arithmetic capability guarantees the excellent quality of pressure transmitter. The whole design framework focuses on the reliability, stability, accuracy and intelligence. This product has powerful interface operation functions. The digital meter can display pressure value, percentage, current value and 0~100% simulation instruction. And the keying operation is very helpful to complete zero shift, range setting, damping setting and other basic parameters under the condition without standard pressure source, which is very convenient for field debugging. The signal transformation, signal acquisition and processing and control of current output adopt exclusive integrated circuit to achieve accuracy, stability and reliability and other features.

## Application

Pressure measurement in mechanical, metallurgical, petrochemical, electric power, water and gas supply and other industrial processes

## Features

- .exclusive customized electric shell, ingress protection IP65
- .LCD field display, high accuracy
- .configuration operation and Range active migration
- .the density of measured medium can be set and adjusted in locale
- .strong anti-jamming and long-term stability

## Technical Parameters

Measuring Medium	Liquid, Gas, Steam
Pressure Range	-100kPa...0~0.01...60MPa
Overload	1.5 times pressure range of full scale
Pressure Type	Gauge, Absolute or Sealed Gauge
Accuracy	±0.2%FS(Representative), ±0.5%FS(Maximum)
Long-term Stability	±0.1%FS/year(Representative), ±0.2%FS(Maximum)
Temperature Coefficient of Zero	±0.03%FS/°C (Reference 25°C)
Temperature Coefficient of Full Scale	±0.03%FS/°C (Reference 25°C)
Working Temp	-30~85°C
Storage Temp	-40~120°C
Supply Voltage	24VDC
Output Signal	4~20mADC
Output Mode	Two-wire
Load Resistance	≤(U-10)/0.02Ω
Insulation Resistance	100MΩ, 500VDC
Ingress Protection of Shell	IP65
Electrical Connection	Dedicated shield cable 1.5 meters

## Structure Material

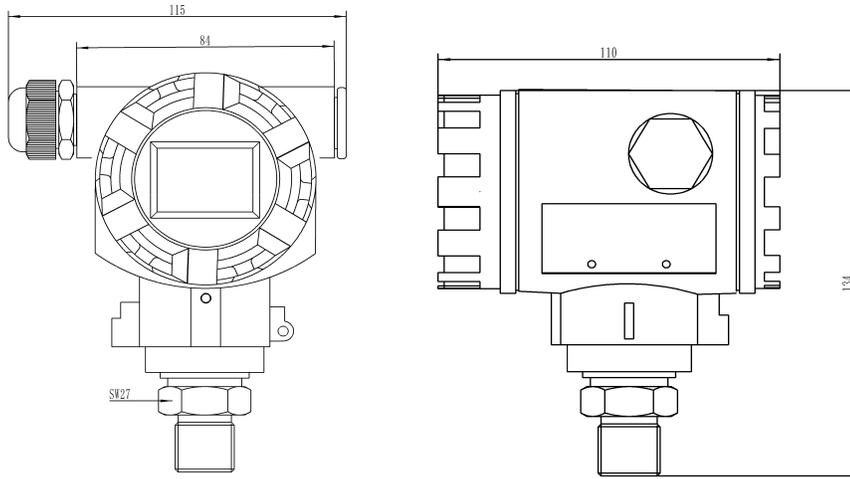
Shell: aluminum alloy

Pressure interface: stainless steel 1Cr18Ni9Ti

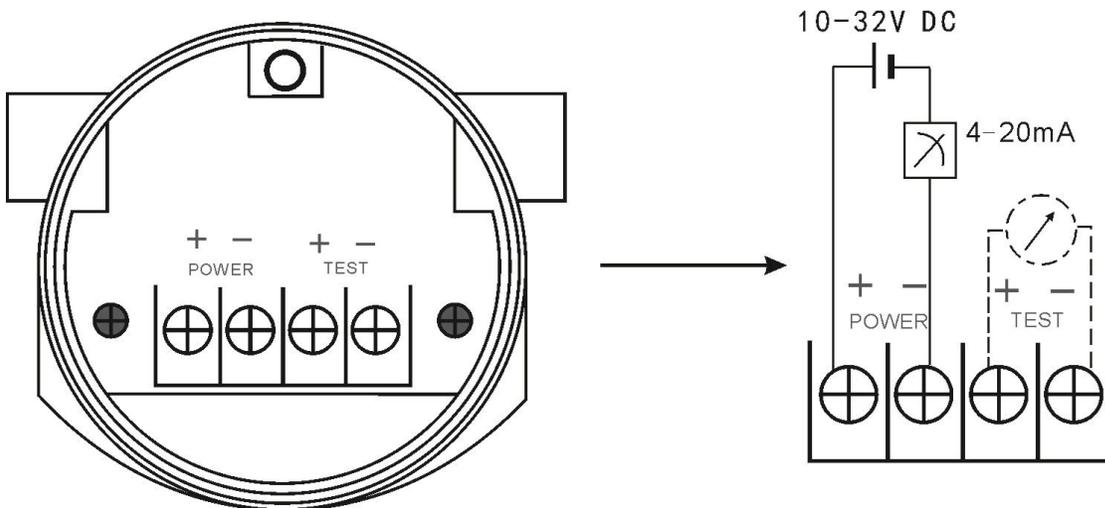
Diaphragm: stainless steel 316L

O-ring: fluoro rubber

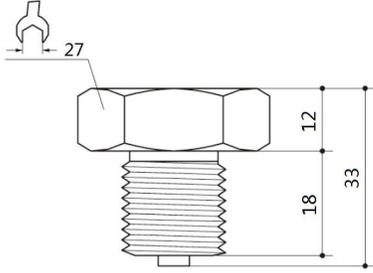
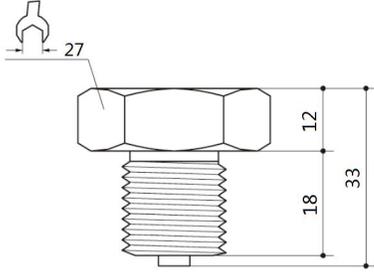
### Structure Drawings



### Electrical Connection

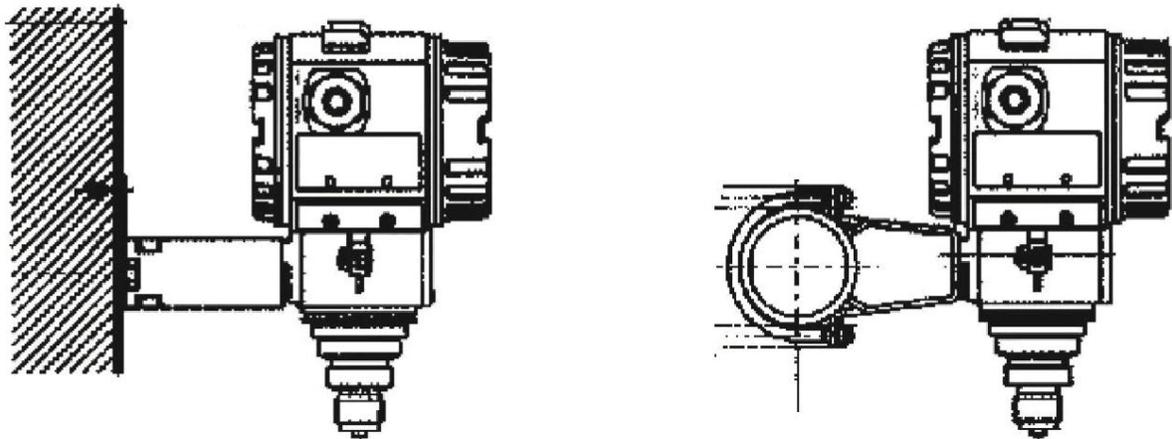


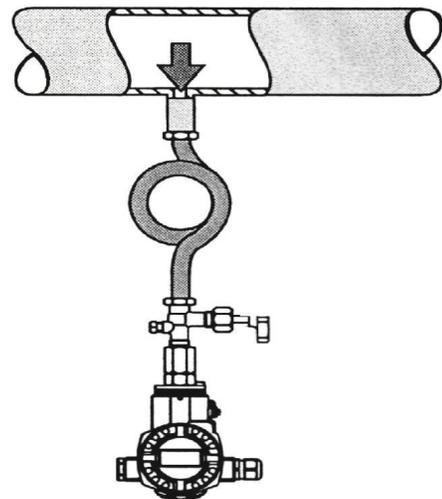
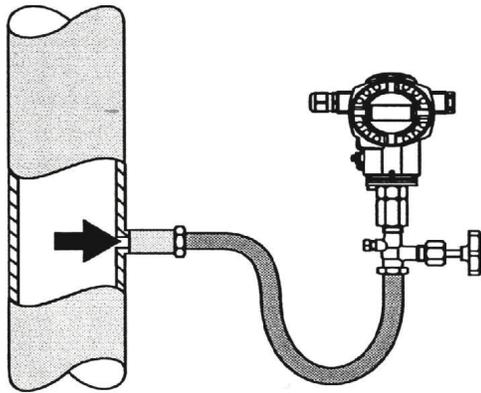
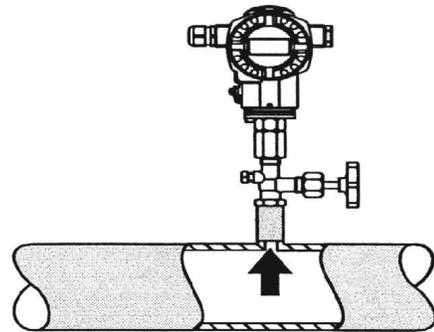
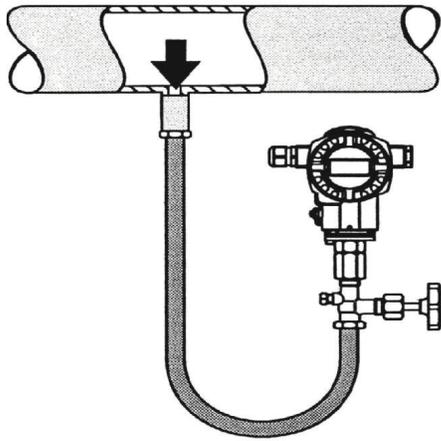
## Pressure Port

M20×1.5	G1/2
	

## Installation

The pressure transmitter can be installed directly on the pressure pipe or with the installation bracket





## Ordering Guide

Item NO.	Type					
HPM240	Intelligent Digital Display Pressure Transmitter					
	Pressure Range	Measuring Range				
	(0~X)MPa	Fill out X directly				
		Code	Output Signal			
		B1	(4~20)mA			
		B2	(0~10)mA			
		B3	(0~10)V			
		B4	(0~5)V			
		B5	(1~5)V			
		B6	(0.5~4.5)V			
		Code	Thread Spec			
		P1	M20×1.5			
		P4	G1/2			
		Code	Electrical Connection			
		C9	cable gland			
		Code	Structure&Material			
			Diaphragm	Interface	Shell	
		M1	316L	316L	Stainless Steel	
		M2	316L	316L	316L	
		M3	Tantalum	Hastelloy	316L	
		M4	Titanium	Titanium	316L	
		X	Others			
		Code	Additional Functions			
		G	Gauge Pressure ( Default )			
		A	Absolute Pressure			
		S	Sealed Gauge Pressure			
		v	Fluororubber O-Ring ( Default )			
		j	Buna-n O-Ring			
		h	All Welded without O-Ring			
		d	Explosion-proof type, Exd II CT6			
		L	Measurement less than 10kPa			
		W	Water Proof and Breathable			
HPM240	(0~1)MPa	B1	P1	C9	M1	G v