

HPM311 Air Pressure Differential Pressure Transmitter



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Overview

HPM311 Air Differential Pressure Transmitter adopts CNC integrated aluminium alloy shell. The transmitter sensor with high accurate and high stable sensitive core to transform the pressure signal of measured medium to 4-20mA DC signal or standard voltage signal through high reliable enlarged electric circuit. It is with the field display and configuration operation functions. The range is adjustable and the PV can be reset. This product with the high-quality sensor, superb packaging technology and perfect assembly process guarantees the excellent quality and functions.

Application

Boiler air supply, fan pressure, air duct pressure, indoor ventilation, subway air pressure, underground ventilation, environmental air pressure pressure or differential pressure measurement

Features

- .Measure differential pressure of micro air
- .Field display and configuration operation
- .Hard and sealed aluminium alloy shell
- .Short-circuit protection and reverse polarity protection
- .All range temperature compensation
- .Strong anti-jamming and long-term stability

Technical Parameters

Measuring Medium: dry and clear noncorrosive gas (can not connect with liquid)

Pressure Range : -100kPa...0~200Pa...100kPa

Overload: 3 times pressure range of basic scale

Output Signal: 4~20mADC (two-wire); 0-5V, 0-10V, 1-5V voltage output (three-wire)

Operation Voltage: 24VDC

Compensation Temperature: 0~60°C

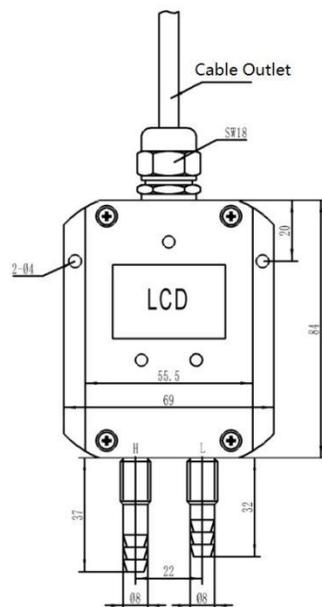
Working Temperature: -40~85°C

Zero Point Deviation: less than $\pm 0.5\%$ of output range

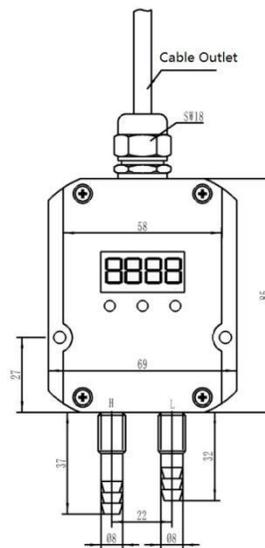
Temperature Influence: $\pm 0.5\%FS$ (0.5 grade) of maximum range; $\pm 0.2\%FS$ (0.2 grade);
(within the range of compensation temperature)

Stability: $\pm 0.5\%FS/year$ (0.5 grade) ; $\pm 0.2\%FS/year$ (0.2 grade)

Structure Drawings

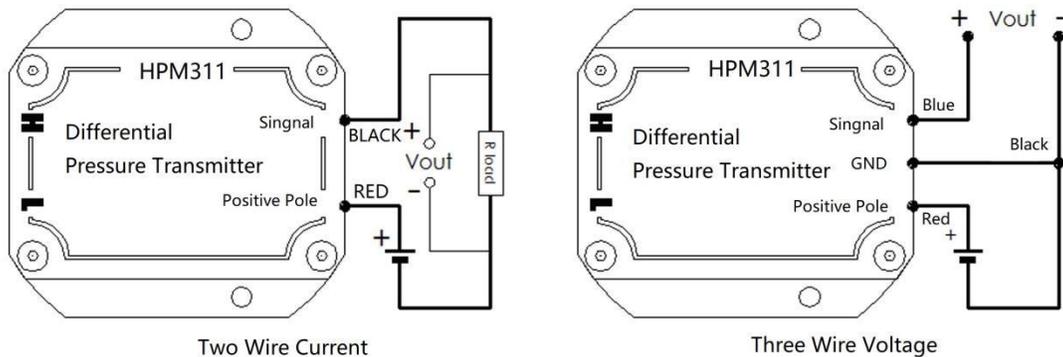


LCD Display



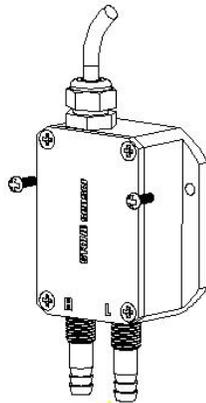
LED Display

Electrical Connection



Installation

1. The product can be installed directly on the wall or panel by threaded hole.
2. When installed in the open air, the transmitter should be placed in a ventilated and dry place as far as possible to avoid direct exposure to strong light and rain, otherwise the performance of the whole machine will be reduced and the life of the whole machine will be affected.
3. The lead cable should pay attention to protection, in the industrial site use, it is recommended to use snakeskin tube or iron tube protection, or put it high.



Ordering Guide

Item NO.	Type						
HPM311	Air Differential Pressure Transmitter						
	Pressure Range	Measuring Range					
		(0~X)kPa	Fill out X directly				
			Code	Output Signal			
			B1	4~20mA			
			B3	(0~10)V			
			B4	(0~5)V			
			B5	(1~5)V			
			B6	(0.5~4.5)V			
				Code	Thread Spec		
				T6	Φ6 Pagoda		
				T8	Φ8 Pagoda		
					Code	Electrical Connection	
					C2	Cable Outlet	
						Code	Structure&Material
						X	Other
						Code	Additional Functions
D1						LED Display	
					D2	LCD Display	
HPM311	(0~1)kPa	B1	T8	C2	X	D2	