MPM/MDM484 Pressure/Differential Pressure Transmitting Controller

Features

·Φ150mm standard pressure gauge outline;

·31/2 digit LED digital indicator displaying pressure value;

·Max. 5 relay outputs, free setting and display; stable operation;

·Wider power supply range, optional analog output signal;

·Stainless steel material contacting with media, aluminum-alloy electronic housing;

·316L stainless steel diaphragm, flush diaphragm (only pressure type) and tantalum diaphragm (only pressure type) optional;

• Strict aging testing, stable and reliable performance;

Introduction

The product is an integrated multi-functional transmitter with analog circuit, can measure and display liquid pressure or differential pressure as well as standard output signal at local place. The transmitter provides max.5 relay outputs, special production technics making operation stable and reliable. It can be used for flow pressure and differential pressure measure, display and control for power station, water supply and drainage, petroleum and chemi-industry, etc.

Specifications

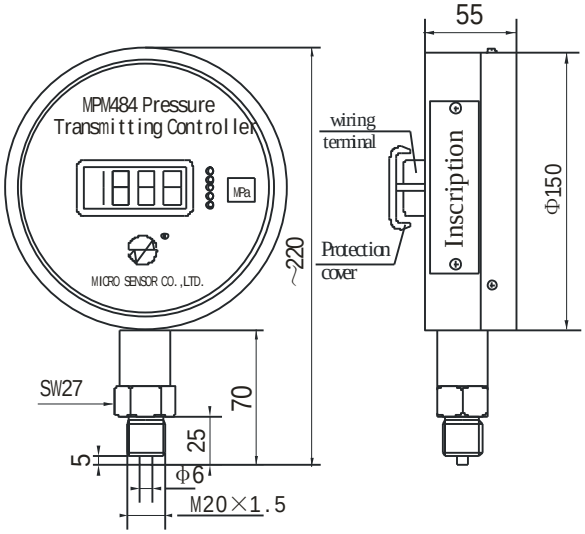
<table>
<tr><td>MPM484</td><td colspan="3">Pressure range: -0.1…0～0.01…100MPa
Overpressure: 1.5 times FS or 110MPa（min.value is valid）</td></tr>
<tr><td rowspan="8">MDM484</td><td rowspan="2">Differential pressure range</td><td colspan="2">Overpressure</td></tr>
<tr><td>+</td><td>-</td></tr>
<tr><td>0～35kPa</td><td>70kPa</td><td>35kPa</td></tr>
<tr><td>0～70kPa</td><td>150kPa</td><td>70kPa</td></tr>
<tr><td>0～100kPa</td><td>200kPa</td><td>100kPa</td></tr>
<tr><td>0～350kPa</td><td>700kPa</td><td>350kPa</td></tr>
<tr><td>0～700kPa</td><td>1400kPa</td><td>700kPa</td></tr>
<tr><td>0～1MPa</td><td>2MPa</td><td>1MPa</td></tr>
</table>

	0～2MPa	4MPa	1MPa
	0～3.5MPa	7MPa	1MPa
	Static pressure	≤20MPa	

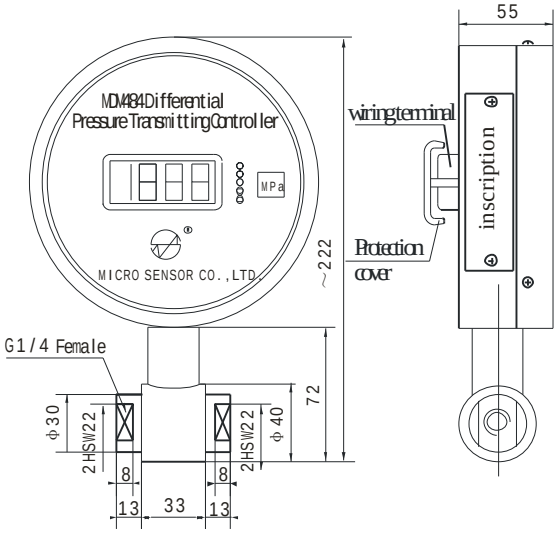
Output signal accuracy:	±0.25%FS（typ.）	±0.5%FS（max.）	
Display accuracy: ±1 digit			
Relay control accuracy:	≤1%FS		
Power supply effect:	≤0.1%FS		
Long-term stability:	≤0.5%FS/year		
Environment temp.:	-10℃～60℃	Frequency:	0～300Hz
Media temp.:	-10℃～80℃	Acceleration:	≤3×9.81ms-2
Storage temp.:	-40℃～100℃	Impact:	≤10×9.81ms-2
Relative humility:	0～80%		
Output signal:	0/4～10/20mADC	0/1～5/10VDC	
Transmitting:	4-wire	4-wrie	
Power voltage:	220VAC, 220VDC or 24VDC		
Max. consumption:	≤4W		
Relay load:	240V/3A(AC)， 30V/5A(DC)		
Relay life:	＞100000 次		
Displayed character height:	0.56 inch LED red		

Outline Construction

（Unit: mm）

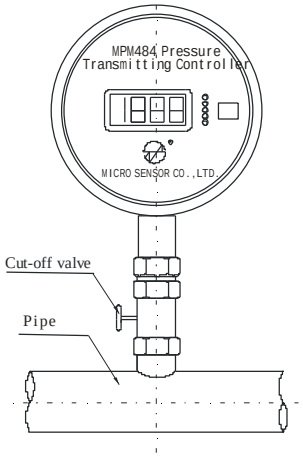


MPM484 Outline Construction and Dimension

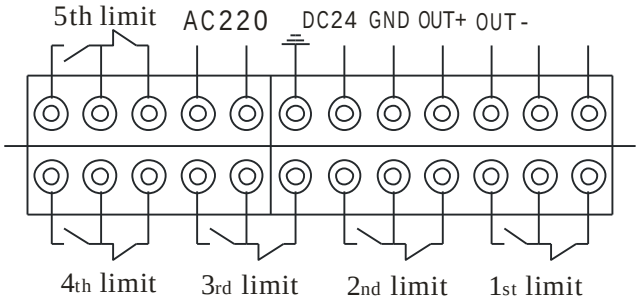


MDM484 Outline Construction and Dimension

Application Example



Electric Connection



Order Guide

MPM484	Pressure Transmitting Controller							
MDM484	Differential Pressure Transmitting Controller							
	Code	Pressure range: kPa or MPa						
	[0～X]kPa or MPa	-0.1…0～0.01…100MPa X=MPM484 actual measure range						
		0～35kPa…3.5MPa X=MDM484 actual measure range						
		Code	Output signal					
		E	4～20mADC					
		F	1～5VDC					
		J	0～5VDC					
		Q	0～10mADC					
		U	0～20mADC					
		V	0～10VDC					
			Code	Construction material				
				Diaphragm	Pressure port	Housing		
			22	SS 316L	SS	SS		
			25	Tantalum	SS	SS		
			35	Tantalum	Hastelloy C	SS		
				Code	Others			
				M_4	3 1/2 digits LED digital indicator（only 4～20mA）			
				P	Flush diaphragm, G1/2 male			
				C_1	M20×1.5 male, face type seal			
				C_3	G1/2 male （for type P）			
				C_4	G1/4 female			
				C_5	M20×1.5 male, waterline seal			
				G	Gauge			
				S	Sealed gauge			

					A	Absolute	
					J_n	Reply quantity, n=1～5	
					V_1	Power supply 24VDC	
					V_2	Power supply 220VAC	
MPM484	[0～100]kPa		E	22	$M_3C_1GJ_3$ V_2		the whole spec

Order Note

1. Product wiring terminals are at the back of the electronic housing; in order to prevent damaging; we suggest the user to do full protection in local place;

2. Please note relay quantity, control pressure range in the order;

3. Code 25, 36 in the order guide is just used for gauge pressure product; P, C1. C3. C5, G, A and S are only used for gauge pressure product;

4. For MDM484 product, please pay attention to overpressure of positive and negative cavity should be suitable to max. Pressure; we suggest to install tri-valve between measured point and transmitter to make pressure adding on positive and negative cavity slowly;

5. Flush diaphragm transmitter's pressure range 0～70kPa…35Mpa;

6. If the user has special requirement, please feel free to contact our company;