Differential Pressure Transmitter for Oxygen-Measurement Industries MDM4901FL

CE

Range

Specifications

RoHS

PCEC

0mbar ~ 350mbar...35bar



Applications

- Pharmaceutical industry
- Aerospace industry
- Firefighting industry
- Submarine

Features

- Reversed-polarity protection, transient overcurrent and overvoltage protection, conforming EMI protection requirements
- CE, RoHS, CCS approved for ship-use type

Introduction

MDM4901FL Differential Pressure Transmitter is dedicated to oxygen pressure measurement, filled with Fluorinated® oil, which has high precision, high stability and high safety level. It is widely used in the medical and pharmaceutical industries, specializing in gas pressure measurement in medical oxygen production equipment and oxygen storage tanks





Thermal Drift

Zoro Thormal Drift	±0.03%FS/°C (≤ 1bar)
	±0.02%FS/°C (> 1bar)
Span Thormal Drift	±0.03%FS/°C (≤ 1bar)
Span mermai Dhit	±0.02%FS/°C(> 1bar)

Output Signals

Output Signal	Power Supply	Output Format	Load Resistance	
4mA~20mA DC (E)	15V~28V DC	2-wire		
0mA~10mA DC (Q)			≤ (U-15)/0.02(Ω)	
0mA~20mA DC (U)				
0V~5V DC(J)		3-wire		
1V~5V DC (F)			>100kΩ	
0V~10V DC (V)				

Materials

Wetted Parts Isolated Diaphragm: SS 316L Pressure Port: SS 304/SS 316L Non-wetted Parts Housing: SS 304/SS 316L Cable: PE/PUR/PVC

Outline Dimensions





M12×1 4-pin Plug Connector (B4) 3

unit: mm



Electrical Connection

Definition	Hirschmann 4-pir (B	n Plug Connector 1)	Ca (E	ble 32)	M12×1 4-pin Plug Connector (B4)	
					4. 1.	•3
	current 2-wire	voltage 3-wire	current 2-wire	voltage 3-wire	current 2-wire	voltage 3-wire
+V	1	1	red	red	1	1
+OUT	2	3	black	white	3	3
GND	null	2	null	black	null	2

Ordering Guide

MDM4901FL	L Differential Pressure Transmitter									
	Range	Mea	Measurement Range 0mbar ~ 350mbar…35bar							
[0 ~ X]mbarL or ba	[0 ~ X]mbarL o	or barL X: ad	. X: actual measured range, L means cable length when electrical connection is B2							
		Cod	Code Output Signal							
	E	4mA~	20mA E	C						
		Q	Q 0mA~10mA DC							
			U 0mA~20mA DC							
		J	J 0V~5V DC							
		F	1V~5∖	/ DC						
		V	0V~10	V DC						
								Material		
			Code	ls	olated Diaphrag		n	Pressure Port	Housing	
		22		SS	316L		SS 304	SS 304		
			24	24		SS 316L		SS 316L	SS 316L	
				Code	Proces	ss Connec	s Connection			
				C4	G1/4 f	emale				
				C8	NPT1/	4 female				
					Code	Electrical	ectrical Connection [®]			
					B1	4-pin plug	ıg conr	nector		
					B2	cable cor	nnectio	on		
					B4	M12×1 4	l-pin Pl	ug Connector		
						Code Ad	ccesso	ory		
						null no	o acce	ssory		
					M6 4	digits	ELED digital indicator (only	r for 4mA ~ 20mA DC outp	ut	
						pr	roduct	s with B1 electrical connection		
						M7 4	digits	LCD digital indicator (only	r for 4mA ~ 20mA DC outp	ut
						pr	roauct	S with B1 electrical connection		
	[0 ~ 16]ha	r F	22	C4	B1	M6		Complete Type St	pecification	
			22	40	DI	WIO		Complete Type of	Joomouton	

Ordering Notes

- 1. "①" for B1 or B4 electrical connection, please specify us in the order if cable is needed.
- 2. The cable length is 1.5m by default, cable material is available for 3 types, PE cable is provided as default. if other material is needed, please specify in the order.
- 3. When ordering the transmitter with M6 or M7 indicator, power supply should \ge 20V DC.
- 4. Environmental temperature should be -20°C ~ 70°C when ordering the transmitter with M6 indicator, environmental temperature should be -10°C ~ 60°C when ordering the transmitter with M7 indicator, indicator setting can refer to our indicator lectotype, which can be found on our company's website.
- 5. In order to ensure the safe and reliable operation of the transmitter, it is recommended to install a threevalve group between the measured point and the transmitter to ensure that the medium under test is slowly and uniformly added to the positive and negative pressure chambers of the differential pressure transmitter.
- Please notice the static pressure of the measured pressure point does not exceed 200bar when ordering, and the overpressure of the positive and negative pressure chambers of the transmitter cannot exceed the specified value of the product.
- 7. If there are other requirements, please contact us and specify it in the order.