

MARINE PRESSURE INSTRUMENT

MDM491 Piezoresistive Differential Pressure Transmitter

ISO9001 Supplier

Class Certificate

Export Supply

Features: Full stainless steel construction, compact size, easy installation. Welding and full-sealed construction. housing protection IP65. Using piezoresistive differential pressure sensor, 316L is...



Key Highlights

Category	Marine Pressure Instrument
Standard	ISO
Material	Full stainless steel construction, compact size, easy installation.
Weight / Size	Full stainless steel construction, compact size, easy installation.
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications

Category	Marine Pressure Instrument	Model / SKU	MDM491-Piezoresistive-Differential-Pressure-Transmitter
Standard	ISO	Material	Full stainless steel construction, compact size, easy installation.
Weight / Size	Full stainless steel construction, compact size, easy installation.	Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS
Warranty	12 Months unless specified otherwise	Origin	China

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Features:

Full stainless steel construction, compact size, easy installation.

Welding and full-sealed construction. housing protection IP65.

Using piezoresistive differential pressure sensor, 316L isolated diaphragm.

Temperature compensation and aging, stable performance.

Zero and span adjustable outside for plug connection version.

Introduction:

MDM491 Piezoresistive Differential Pressure Transmitter is a compact full-welded (no sealed ring) differential measurement element. Silicon oil is filled in between die and two diaphragms, when the measured differential pressure is added on two diaphragms, the pressure could be transferred onto die through silicon oil. Sensor die connects with amplifier circuit through wires, using semi-conductor's piezoresistive effect, transforming differential pressure signal into electric signal. The output signal from Weston Bridge on the sensing die has a good linear relationship with differential pressure, so the measured differential pressure could be measured precisely. The whole product is used for differential pressure measurement of various gases and liquids in pipeline in many fields including petroleum, chemi-industry, power station and hydrology, etc.

Specification:

Range Code	0A	2	3	7	8	9	10	12
Unit	kPa						MPa	
Pressure Range	0~35	0~70	0~100	0~200	0~350	0~700	0~1	0~2
+ overpressure	70	150	200	400	700	1400	2	4
-overpressure	35	70	100	200	350	700	1	1
Static Pressure	≤20MPa							

Typ.	Max.	Unit			
		Min.			
Accuracy	0.5	±%FS			
Zero Thermal Error		≤ 200kPa	0.75	1.25	±%FS , @35℃
		> 200kPa	0.5	0.75	
Span Thermal Error		≤ 200kPa	0.75	1.25	
		> 200kPa	0.5	0.75	
Stability		≤ 200kPa	0.5		±%FS/year
		> 200kPa	0.2		
Static Pressure Effect		0.05			±%FS, per 100kPa
Compensation temp.		0~70			
Operation temp.		-10~80			℃

Storage temp.	-40~120
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