

## Pressure transmitter For sanitary applications Model MDS5

### Applications

- For gases, compressed air, vapour, liquids, pastes and powdery media
- Ultra-pure steam systems for SIP
- Hydrostatic level measurement:
- Vacuum pressure monitoring, e.g. vacuum conveyors, pump monitoring
- Food and beverage manufacturing, pharmaceutical industry, biotechnology, sanitary applications

### Special features

- Flush diaphragm with a surface roughness of  $Ra < 0.38 \mu m$
- Fully welded
- Suitable for SIP and CIP
- Ingress protection up to IP 65

### Description

The pressure transmitter MDS5 is designed especially for the requirements of the food and beverage, pharmaceutical and biotechnology industries.

It is particularly suitable for the special conditions of CIP/ SIP cleaning processes, such as chemical stability towards cleaning liquids and high temperatures.

The flush diaphragm is directly welded to the process connection. This guarantees a service-free connection of the process connection and the measuring cell so that additional sealings are not required.

For dead-space free instrumentation, aseptic process connections (clamp, threaded) are available.

The MDS5 pressure transmitter is ideally suited to fulfil the stringent demands of sanitary applications



The measuring range covers 0 ... 250 mbar up to 0 ... 200 bar. The MDS5 pressure transmitter is powered with a DC voltage of 10 (14) ... 30 V. Available electronic output signals are 4 ... 20 mA, 0 ... 20 mA or 0 ... 10 V output.

A stainless steel case with an ingress protection of up to IP 65 offers a secure protection for external cleaning with splashed water and enables its use in high-humidity environments. Through the integrated cooling section, process temperatures of up to 60°C can be realised.

## Specification

Measurement Range	0 ... ~250mbar~200 BAR
Proof pressure	$\leq 1.5X$ rated pressure
Pressure type	Gauge, absolute ,sealed gauge
Accuracy	$\pm 0.5\%$ (typical ) $\pm 0.25\%$ (option )
Long stability	$\pm 0.1\%F.S./year$ (typical) $\pm 0.2\%F.S/y$ ear (Max.)
Temperature Error- Zero	$\pm 0.03\%F.S/^{\circ}C$ ( $\leq 100KPa$ ) $\pm 0.02\%F.S/^{\circ}C$ ( $> 100KPa$ )
Temperature Error -Span	$\pm 0.03\%F.S/^{\circ}C$ ( $\leq 100KPa$ ) $\pm 0.02\%F.S/^{\circ}C$ ( $> 100KPa$ )
Operating Temperature Range	$-10^{\circ}C \sim 60^{\circ}C$
Storage Temperature Range	$-40^{\circ}C \sim 85^{\circ}C$
Power supply	9 ~36VDC、15VDC
Output signal	4~20mA 0.5 ~4.5VDC 1 ~ 5VDC 1 ~ 10VDC
Process connection	Tri-clamp 1 1/2" or 2"
Housing material	1Cr18Ni9Ti stainless steel
Diaphragm material	Fully welded 316L



## Ordering Information

MD S 5X	Code	Dimension					
	5	Circular connector M12*1 4pin					
	6	Cable with 1.5 meter					
	7	Mini DIN					
	8	Big Din					
		Pressure range	0.. . . 250mbar...200 BAR				
		(0-X)PSI or BAR	X: measurement range				
			Code	Power supply			
			D1	24VDC			
			D2	5VDC			
			D3	Others			
				Code	Output signal		
				S1	4~20mADC	S5	0~20mADC
				S2	1~5VDC	S6	0~10VDC
				S3	0~5VDC	S7	0.5~4.5VDC
				S4	0~10mADC		
					Code	Pressure port	
					J1	1 1/2"	
					J2	2"	
					J5	Others	
						Code	Pressure type
						G	Gauge
						A	Absolute pressure
						S	Sealed pressure

### Ordering note:

- Media must compatible with wetted part.
- To ensure the products can working reliable, we suggest that customer install lightning protection device and make sure products & power are earthed.
- Special requirement, such as strong shock, moment vibration, strong electromagnetism, radio frequency interference, please consult us.

#### Warranty:

Pressure transmitters have a limited one year warranty to the original purchaser. MADECO will replace or repair defective products free of charge. This warranty does not apply to any units have been modified, misused, neglected.



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