



MHT310 Pressure Transmitter

Features

- Piezoresistive silicon chip employed
- Perfect long term stability
- MEMS technology
- CE certificate
- Compact size



Introduction

MHT310 Pressure Transmitter is one standard and cost-efficient transmitter applied in air and liquid pressure measurement.

Specification

Pressure	
Pressure Range	0-5psi to 0-10,000psi,
Pressure Reference	Gauge pressure Absolute pressure Sealed gauge pressure
Overpressure 30	0%F.S.(≤10psi) 200%F.S.(<3500psi) 150%F.S(≥3500psi)
Output Signal	
Output	0 to 10V 4 to 20mA 1 to 5V 0 to 5V
Performance	
Accuracy (including linearity hysteresis and repeatability)	±0.5%F.S. (Typical)
Excitation	24VDC 12VDC 5VDC
Compensated Temp.	-20~85℃ (typical)
Operating Temp.	-40~125℃ / 255oF
Storage Temp.	-40~125℃ / 255oF
Zero Temp. Coefficient	±1.5%F.S.max.(-20-85℃/ 185F)
Span Temp. Coefficient	±1.5%F.S.max.(-20-85℃ / 185F)
Pressure connection	see last page "how to order" or due to your requirements
Protection IP65	
Housing material	Stainless steel 304 (SS316 for sensor inside)
Weight 95	g (approx)

Outline Construction & Electric Connection

Round Packard		M12×1P		Cable outlet		Mini 4 pin	
C1		C2		C3		C4	
Current (2 wire)	Voltage (3 wire)	Current (2 wire)	Voltage (3 wire)	Current (2 wire)	Voltage (3 wire)	Current (2 wire)	Voltage (3 wire)
Pin 1 +Excitation Pin2 +Output Pin 3 Pending	Pin 1 +Excitation Pin 2 -Excitation Pin 3 +Output	Pin 1 +Excitation Pin2 +Output Pin 3 Pending Pin 4 Pending	Pin1 +Excitation Pin2 +Output Pin 3 -Excitation Pin 4 Pending	Red: +Excitation Green: +Output	Red +Excitation Green -Excitation Yellow +Output	Pin1 +Excitation Pin2 +Output Pin 3 Pending	Pin1 +Excitation Pin2 -Excitation Pin 3 +Output

Pressure Port

Thread	G1/4	1/4-18NPT	1/8-27NPT
Dimension in mm Hex 24mm			
Code	P1	P2	P3

Thread	M14×1.5	M12×1.5	1/4-19PT	7/16-20UNF(female)
Dimension in mm Hex 24mm				
Code	P4	P5	P6	P7

Order Guide

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Pressure range

Please write directly

Pressure reference

A: absolute pressure
G: gauge pressure
S: sealed gauge

Excitation

E1: 5V DC
E2: 24V DC
E3: 12VDC

Pressure connection

P1: G1/4 P5: M12×1.5
P2: 1/4-18NPT P6: 1/4-19PT
P3: 1/8-27NPT P7: 7/16-20UNF (female)
P4: M14×1.5 P8: others (please specify)

Electrical connection

C1: Round packard
C2: M12×1P
C3: Cable outlet (please write the cable length)
C4: Mini 4 pin

Output signal

S1: 0.5 to 4.5V
S2: 4 to 20mA
S3: 1 to 5V
S4: 0 to 5V
S5: 0 to 10V

Attention

1. If lightning possible happening, we suggest to use Lightning Protection Device in local operating place, and be sure product and power grounding safely;
2. If the user has special requirement, please feel free to contact our company.



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