

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.(≤ 10 psi) 200%F.S.(< 3500 psi) 150%F.S(≥ 3500 psi)
Output Signal	
Output	0 to 10V 4 to 20mA 1 to 5V 0 to 5V
Performance	
Accuracy (including linearity hysteresis and repeatability)	$\pm 0.5\%$ F.S. (Typical)
Excitation	24VDC 12VDC 5VDC
Compensated Temp.	-20~85 °C (typical)
Operating Temp.	-40~125 °C / 255oF
Storage Temp.	-40~125 °C / 255oF
Zero Temp. Coefficient	$\pm 1.5\%$ F.S.max.(-20-85 °C/ 185F)
Span Temp. Coefficient	$\pm 1.5\%$ F.S.max.(-20-85 °C / 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)

INDUSTRIAL PRESSURE TRANSMITTERS - High Accuracy MEMS

Outline Construction & Electric Connection

Round Packard		M12x1P		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	Pin 1 +Excitation	Pin 1 +Excitation	Pin 1 +Excitation	Red: +Excitation	Red: +Excitation	Pin 1 +Excitation	Pin 1 +Excitation
Pin 2 +Output	Pin 2 -Excitation	Pin 2 +Output	Pin 2 +Output	Green: +Output	Green -Excitation	Pin 2 +Output	Pin 2 -Excitation
Pin 3 Pending	Pin 3 +Output	Pin 3 Pending	Pin 3 -Excitation		Yellow +Output	Pin 3 Pending	Pin 3 +Output
		Pin 4 Pending	Pin 4 Pending				

Pressure Port

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

Thread	M14x1.5	M12x1.5	1/4-19PT	7/16-20UNF(female)
Dimension in mm Hex 24mm				
Code	P4	P5	P6	P7

INDUSTRIAL PRESSURE TRANSMITTERS - High Accuracy MEMS

Order Guide

MHT310 XX - XX - XX - XX - XX - XX

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

Morheat Inc.

21 Meteor Dr
Toronto, Ont.,
Canada M9W 1A3
p 416-675-7329
f 416-675-7349
sajr@rogers.com



www.mpipressure.com

ph (416) 675-7329

email sajr@rogers.com