

ARTISAN®
TECHNOLOGY GROUP

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Highly Configurable, High Accuracy, Custom Pressure Transducers

0 to 260 torr, <0.1% Accuracy, Voltage, 0 to 10 V 1/8", NPT Male, Cable, 4 to 60 °C (40 to 140 °F)

(0)



Data Sheet (PDF)

$885.32

Item# MMA005V10T3A0T1A3

Volume discounts available

QTY

1

ADD TO CART

CONFIGURE NOW

0 In stock

Lead Time (If not in stock): 5 Days

+ Add to Project List

- High Accuracy, Up to ±0.05%
- Customer Selectable Features
- Over 1,000,000 Feature Combinations
- Premium Temperature Performance

View Full Specifications

MMA005V10T3A0T1A3 Model Options

View All Models

Edit these specs to order a different model. Not all combinations are valid. Options compatible with previous selections will be in bold.

Was this helpful?

Pressure Range

0 to 260 torr

Pressure Type

Absolute

Accuracy Class

<0.1%

Accuracy Value(compensated range)

±0.08%

Output Signal

Voltage

Electrical Output

0 to 10 V

Pressure Port Size

1/8"

Pressure Port Type

NPT Male

Connection/Termination

Cable

Operating Temperature Range

4 to 60 °C (40 to 140 °F)

Additional Features

Max Thermal Shift ±0.5% Z±0.5%S

SPECS

Build/Order/Ship OMEGA'S MM Series Custom Pressure Transducers to meet your pressure sensing requirements

As a lead pressure transducer manufacturer, Omega has developed a new interactive configuration tool that provides a fast and simple way to build custom transducer suitable for application. MM Series custom transducers allow for over 1-million possible combinations of parameters such as pressure type, range, unit, material, output, accuracy, fitting, temperature compensation range, and electrical termination. At the end of the process, the Configurator will provide a part number, price and delivery time for the transducer.

OMEGA's micro-machined piezoresistive pressure transducers have a proven record in high performance commercial, automotive, test and measurement and aerospace applications. The piezoresistive process uses strain gages molecularly embedded into a highly stable silicon wafer. The silicon wafer is diced into individual die which each contain a full strain gage bridge. The die is mounted in a sealed chamber protected from the environment by glass to metal seals and a pressure sensitive stainless steel diaphragm. A small volume of silicone oil transfers the pressure from the diaphragm to the strain bridge. The construction provides a very rugged transducer with exceptional accuracy, stability and thermal effects.

Some of the most Popular Applications of Pressure Transducers include: Measuring inlet, outlet, or system pressure in engine test setup Measuring pressure drops in a line for preventive maintenance Measuring fluid height or level in tanks Measuring a water pipe leak or gas leak and monitoring gas pressure Maintaining pressure in food and beverage lines Sanitary pressure measurement in the bio or pharmaceutical industry.



Pressure type

(A) Absolute
(G) Gage(SG) Sealed Gage
(CG) Compound Gage
(B) Barometric
(V) Vacuum
(DWU) Differential WW Uni-Directional
(DWB) Differential WW Bi-Directional
(DDU) Differential WD Uni-Directional
(DDB) Differential WD Bi-Directional

Pressure Range

(10W) 10 inH2O
(001) 1 psi
(2.5) 2.5 psi
(005) 5 psi
(015) 15 psi
(030) 30 psi
(050) 50 psi
(100) 100 psi
(150) 150 psi
(250) 250 psi
(500) 500 psi
(600) 600 psi
(750) 750 psi
(1.0K) 1000 psi
(1.5K) 1500 psi
(2.5K) 2500 psi
(3.5K) 3500 psi
(5.0K) 5000 psi
(16) 16-32 inHG ABS
(26) 26-32 inHG ABS
(32) 0-32 inHG ABS

Output

(V) 3mv/V
(V5) 0-5 Vdc
(V1) 10mv/V
(V10) 0-10 Vdc
(C1) 4-20mA
(BIV) ±3mv/V
(BIV1) ±10mv/V
(BIV10) ±0-10 Vdc
(BIC1) 4-20mA (12mA set at zero)
(USBH) USBH (High Speed)

(R4V) RS485 (Voltage)
(R4I) RS485 (Current)

Pressure Unit

(P) PSI
(B) Bar
(H) hPa (mbar)
(K) kPa (W) inH2O (4°C)
(M) inHg (0°C)
(T) TORR (mm-Hg)
(F) ft-H2O (4°C)

Accuracy

(1) 0.03%
(2) 0.05%
(3) 0.08%
(4) 0.20%
(5) 0.40%

Process Fitting

(A) 1/8-27 MNPT
(B) 1/8-27 FNPT
(C) 1/4-18 MNPT
(D) 1/4-18 FNPT
(J) 7/16-20 UNF-M
(K) 7/16-20 UNF-F
(L) 9/16UNF-M
(M) 9/16UNF-F
(MA) G 1/8B-M
(MB) G 1/8B-F
(MC) G 1/4B-M
(MD) G 1/4B-F
(ME) M12X1.5M
(MF) M12X1.5F

Electrical Connection

(0) Cable (ONLY OPTION FOR USBH)
(1) Bendix
(2) Conduit
(3) 6 PIN GMS
(5) M12 (ONLY OPTION FOR RS485)
(6) Mini-DIN
(8) GW Cable
(9) GW Conduit Cable

Temperature Compensation

(T1) 40-140°F (4 -60°C)
(T2) 0-200°F (-18-93°C)
(T3) 20-140°F (-7-60°C)
(T4) -40-220°F (-40-105°C)
(T5) 20-200°F (-6-93°C)
(T6) 25-185°F (-4 TO 85°C)
(T7) 15-220°F (-9.4 TO 104°C)
(T8) -40-185°F (-40-85°C)
(T9) 0-185°F (-18-85°C)

Thermal Accuracy

(A1) ±1.0% Z ±0.7% S
(A2) ±0.8% Z ±0.6% S
(A3) ±0.5% Z ±0.5% S
(A4) ±0.3% Z ±0.3% S

(A7) ±0.9% Z ±0.5% S
(A8) ±0.8% Z ±0.3% S
(A10) ±1.0% Z ±1.0% S

Options

(P) Potentiometers
(S) Shunt Cal
(CE) CE Mark
(MB) Mounting Bracket - Barometric only

Example Model Number: **MM A 100 V5 P 1 J 1 T4 A4 S**

ALL MODELS

REVIEWS

MANUALS & DOWNLOADS

Data Sheet (1) MM-Configurable_spec

Compliance Certificates (3)

QUESTIONS & ANSWERS

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Configurable, High Accuracy Pressure Transducers

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PX2760
High Accuracy, Barometric Pressure Transducers

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