

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

RoHS Compliant

Manostar Digital Pressure Gauge: EMD7

Features:

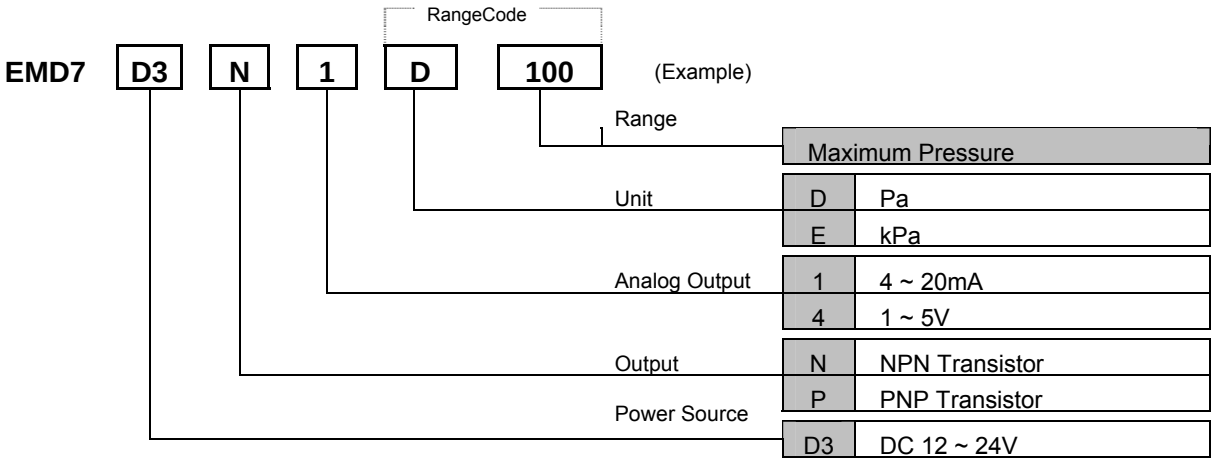
The popular high-precision digital differential pressure gauge, EMD7, is back!

- Eight pressure range options are available, from 0 ~ 100Pa to 0 ~ 5kPa
- Two analog output options are available: 4 ~ 20mA or 1 ~ 5V
- Two alarm output options are available: NPN or PNP Open corrector
- Compatible with 12-24VDC power sources
- Additional functions for differential pressure measurement are available:
  Moving average filter, maximum and minimum memories, delay timer and more
- Alarm function modes can be selected for various applications
- Complies with EC directive and UL regulations



EMD7D3

Product Code Naming



Model	EMD7 (Panel-mounted type)
Type of Measurement	Differential pressure
Gases Measured	Air and non-corrosive gases (no liquids)
Mechanism	Diaphragm (silicon rubber)
Max. Diaphragm Pressure	20kPa
Operating Temp.	0°C~50°C (No icing)
Operating Humidity	35~85%RH or less(No condensation)
Applicable Tubing	Vinyl or rubber tubing: ID 4 (OD <6)(connectors are built into unit)
Orientation of Connectors	High pressure side marked “H”, low pressure side marked “L”
Signal Transformation	Variable inductance
Display	Red 7 segment LED 4 digits (Three right digits used for pressure and alarm display, left digit used to display mode.)
Reset Method	Auto-zero (push button)
Insulation Resistance	Terminal to ground: over 10MΩ (500V DC megger)
Voltage Resistance	Terminal to ground: 500V AC 50/60Hz 1 min.
Casing Material	ABS Polymer (ivory color)
Alarm Output	Output Method EMD7D3N: NPN Open Corrector 1 each, upper and lower limits Maximum load current:: 100mA per output Maximum load voltage: 30V Output saturation voltage: <1V EMD7D3P: PNP Open Corrector 1 each, upper and lower limits Maximum load current:: 100mA per output Maximum load voltage: 30V Output saturation voltage: <2V Range of Settings: Upper limit 0-100%F.S. Lower limit 0-100%F.S. Hysteresis Range: 1-5%FS, adjustable Setup Method: Digital setup with push button Output Display: Red LED X 2
Analog Output	Output Method: 4 ~ 20mA (between 0 ~ FS pressure) Load resistance: 0 ~ 250Ω 0 ~ 5V (between 0 ~ FS pressure) Load resistance: >10KΩ Accuracy ±1.5%FS (at 20°C) Temperature Drift ±0.15%FS/°C (zero+span)
Max. Power Consumption	100mA (internal consumption only)
Power Supply Voltage	12 ~ 24V DC ±10% (ripple <10%)
Weight	Approx. 130g (including terminal cover, panel install adaptor)
Accessories	Panel install adaptor

Pressure Range Code	Pressure Range	LED Display	Diaphragm Pressure Resistance	Standard Installation
D100	0~100 Pa	0~100	20kPa	Vertical
D200	0~200 Pa	0~200		
D300	0~300 Pa	0~300		
D500	0~500 Pa	0~500		

Pressure Range Code	Pressure Range	LED Display	Diaphragm Pressure Resistance	Standard Installation
E1	0~1 kPa	0.00~1.00	20kPa	Vertical
E2	0~2 kPa	0.00~2.00		
E3	0~3 kPa	0.00~3.00		
E5	0~5 kPa	0.00~5.00		

Applicable Regulations

1. EC Directive

This model complies with EMC and low voltage directives of EU

EMC Directive General Requirements: Regulation#

(1) EMI (Electromagnetic Emission): EN61000-6-3

(2) EMS (Electromagnetic Immunity): EN61000-6-2

Low Voltage Directive General Requirements Regulation No.: EN61010-1

2. UL Regulation

This model is certified as a recognized UL regulation part and also meets Canadian regulation (C-UL).

Please observe the following conditions (#3) when installing.

(1) Regulation#: UL3111-1

(2) File#: E220685

(3) Installation Conditions:

Use NEC (National Electrical Code) Class2 power source when connecting with DC power source.

For more information, please contact:

Bellex International Corporation

200 Bellevue PKWY, Suite 180

Wilmington, DE 19809, USA

Tel: 302-791-5180, Fax: 302-791-5190,

www.bellexinternational.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP