Dwyer. **SERIES HM35**

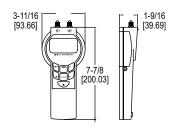
NYECONTROLS

PRECISION DIGITAL PRESSURE MANOMETER

Up to 0.05% Accuracy, Graphical Display, Data Logging Capability

CALIBRATION SERVICES AVAILABLE





The Series HM35 Precision Digital Pressure Manometer is designed to reliably measure and log absolute pressure, differential pressure, or gage pressure with up to 0.05% accuracy. The data logging function can store up to 10,742 readings and transmit the readings to a PC through an IR serial port. The large display can graphically display trends in the data as well as peaks and valleys.

BENEFITS/FEATURES

- Able to record up to 10,742 readings, which can be downloaded to a PC
 Up to 0.05% accuracy for use in critical applications
- · Measure absolute, differential, or gage pressure

APPLICATIONS

- · Calibration facilities
- Laboratories

MODEL CHART - ERROR LIMIT 0.2% FS FOR GAGE, VACUUM, AND DIFFERENTIAL PRESSURE				
Model	Range	Over Pressure		
HM3531DLC300	0 to 28 in w.c. (0-7 kPa)	50 in w.c. 140 in w.c.		
HM3531DLF300	0 to 120 in w.c. (0-30 kPa)			
	0 to 200 in w.c. (0-50 kPa) 0 to 14.5 psi (0-100 kPa)	58 psi 58 psi		
Note: For higher accuracy models, change the 10th digit from a				

3 to a 1 (0.05% FS), 2 (0.1% FS), or 6 (0.1% of reading); higher accuracies are only available on 0 to 28 in of w.c. range or higher.

Example: HM3531DLC100 (0 to 28 in w.c. with 0.05% accuracy); consult factory.

SPECIFICATIONS

Service: Air and compatible gases.
Wetted Materials: 18/8 stainless steel. Accuracy: (Includes linearity, hysteresis, and repeatability): Depending on model; $\pm 0.20\%$ FS ± 1 digit; $\pm 0.10\%$ FS ± 1 digit; $\pm 0.05\%$ FS ± 1 digit.

Temperature Limits: 32 to 122°F (0 to

Storage Temperature: -4 to 140°F (-20

Humidity: Maximum 95% RH noncondensing.

Display: Graphical back lit LCD. 128 x

64 points.

Power Requirements: (3) 1.5 V AA alkaline batteries, installed functional user replaceable. Can operate on 6 to 9 VDC external power.

Current Consumption: 25 mA without

back lit display, IR, or buzzer.

Memory: 10,742 readings. Recording intervals adjustable from 1 s to 24 hrs or

Case Protection: IP54 (NEMA 3). Process Connections: Hose 4/6 mm or

Weight: 10.5 oz (300 g).

ACCESSORIES

			Model	Description
		_		1/8" NPT adaptor (1 piece) Communication software key
OPTIONS				Infrared RS-232 serial adaptor,
Use order code:	Description			required to download stored data
NISTCAL-MD1	NIST traceable calibration certificate		HM35-3	to a PC External power converter with
Note: New units include data report/calibration report. NIST can be provided for the additional fee.				U.S. plug adaptor, input 100 to 240 VAC, 50/60 Hz

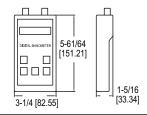
SERIES HM28

ISION HANDHELD DIGITAL MANOMETER

High Accuracy (0.2%, 0.1% or 0.05%), Differential, Gage or Absolute

CALIBRATION SERVICES AVAILABLE





The Series HM28 Precision Handheld Digital Manometer is designed to measure a wide range of pressures with up to 0.05% accuracy. The data logging function can store up to 964 readings and transmit the readings to a PC through an IR serial report. The dual line LCD is able to display a resolution to 0.001 of the selected unit and indicate peaks and valleys.

BENEFITS/FEATURES

- Measures differential, gage, or absolute pressure
 Able to record up to 964 readings, which can be downloaded to a PC
- Up to 0.05% accuracy

APPLICATIONS

- Calibration facilities

 Laboratories 				
MODEL CHART				
Model	Features			
Error limit 0.2% FS for gage, underpressure and differential pressure				
HM28D3C10000	0 to 10 in w.c. (2.5 kPa) 0 to 28 in w.c. (7 kPa) 0 to 120 in w.c. (30 kPa)			
Error limit 0.05% FS for gage, underpressure and differential pressure				
HM28D3F30000	0 to 28 in w.c. (7 kPa) 0 to 120 in w.c. (30 kPa) 0 to 100 psi (700 kPa)			
For absolute pressure				
HM28A3I10000	0 to 15.9 psia (0.2% FS (110 kPa abs))			
Note: Consult factory for 0.10% models.				

SPECIFICATIONS

Service: Air and compatible gases.
Accuracy: (Includes linearity, hysteresis, and repeatability): per order code.
±0.20% FS ±1 digit; ±0.10% FS ±1 digit; ±0.05% FS ±1 digit.
Wetted Materials: 18/8 stainless steel.

Temperature Limits: 23 to 122°F (-5 to

Storage Temperature: -4 to 140°F (-20 to 60°C).

Humidity: 30 to 95% rH, non-

condensing.

Display: 2 line, 16 character, dot matrix LCD, with switchable display sizes.

Power Requirements: 9 V alkaline battery, installed functional, user replaceable. Can operate from external power supply of 7-14 VDC.

Current Consumption: < 9 mA. Memory: 964 measured values Recording intervals adjustable from manual, 1, 5, 10, 20, 30 s, 1, 2, 3, 5, 10, 30, 60 minutes.

Case Protection: IP54 (NEMA 3)

Case Dimensions: 6" x 3.27" x 1.34" (152 x 83 x 34 mm).

Process Connections: Hose; 4/6 mm or 1/8" NPT

Maximum Measurement Rates: Stand alone: 2-1/2 readings/s (0.1% and 0.05% ratings), 5 readings/s (0.2% rating). Output to RS-232: 20 measurements/s (0.2% rating). 10 measurements/s (0.1% and 0.05% ratings). RS-232 Baud Rate: Adjustable, 1200,

2400, 4800, or 9600 baud. Weight: 9.5 oz (270 g).

OPTIONS		
Use order code:	Description	
NISTCAL-MD1	NIST traceable calibration certificate	
Note: New units include data report/calibration report.		

NIST can be provided for the additional fee

ACCESSORIES				
Description				
1/8" NPT adaptor (1 piece)				
Communication software				
I/8" NPT adaptor (1 piece Communication software and cable Universal power adaptor				