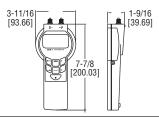
SERIES HM35

PRECISION DIGITAL PRESSURE MANOMETER

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





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

FEATURES/BENEFITS

- 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 HM3531DLE300 HM3531DLF300 HM3531DLG300	0 to 10 in w.c. (0-2.5 kPa) 0 to 28 in w.c. (0-7 kPa) 0 to 80 in w.c. (0-20 kPa) 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)			

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; ±0.20% FS ±1 digit; ±0.10% FS ±1 digit; ±0.05% FS

±1 digit.

Temperature Limits: 32 to 122°F (0

to 50°C). Storage Temperature: -4 to 140°F (-20 to 60°C). Humidity: Maximum 95% RH non-

condensing. **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 manual.

Case Protection: IP54 (NEMA 3). Weight: 10.5 oz (300 g). Process Connections: Hose 4/6 mm or 1/8" NPT. Agency Approvals: CE.

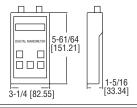
ACCESSORIES		
Model	Description	
HM35-1	1/8" NPT adapter (1 piece) Communication software	
	Infrared RS-232 serial adapter, required to download stored data to a PC	
HM35-3	External power converter with U.S. plug adapter, input 100 to 240 VAC, 50/60 Hz	

OPTION	
Use order code:	Description
NISTCAL-MD	NIST traceable calibration certificate

SERIES HM28 PRECISION HANDHELD DIGITAL MANOMETER

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





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.

FEATURES/BENEFITS

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		
HM28D3B10000 HM28D3C10000 HM28D3F10000	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		
HM28D3C30000 HM28D3F30000 HM28D3K30000	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

Wetted Materials: 18/8 stainless steel.
Temperature Limits: 23 to 122°F

Temperature Limits: 23 to 122°F (-5 to 50°C).
Storage Temperature: -4 to 140°F (-20 to 60°C).
Humidity: 30 to 95% rH, noncondensing.
Display: 2 line, 16 character, dot matrix LCD, with switchable display sizes. sizes.

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

Current Consumption: < 9 mA Memory: 964 measured values. Recording intervals adjustable from manual, 1, 5, 10, 20, 30 seconds, 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).

Weight: 9.5 oz (270 g).

Process Connections: Hose; 4/6 mm or 1/8" NPT. Maximum Measurement Rates:

waximum weasurement 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). ratings). **RS-232 Baud Rate:** Adjustable,

1200, 2400, 4800, or 9600 baud. Agency Approvals: CE

ACCESSORIES			
Model	Description		
	1/8" NPT adapter (1 piece) Communication software and cable		
HM28-2	Universal power adapter		

OPTION	
Use order code:	Description
NISTCAL-MD	NIST traceable calibration certificate