Items are net priced and are not subject to any discount. For NIST traceable calibration certificate, use order code NISTCAL-MD.

**Series HM28**

**Handheld Digital Manometer**

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

**SPECIFICATIONS**

- **Pressure Connection**: Hose; 4/6 mm or 1/8” NPT.
- **Accuracy**: (Includes linearity, hysteresis, and repeatability): per order code.
  - ±0.20% full-scale ±1 digit
  - ±0.10% full-scale ±1 digit
  - ±0.05% full-scale ±1 digit.
- **Measuring Media**: Instrument air or inert gases. For HM28G3XXXX, any material compatible with 18/8 stainless steel.
- **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, 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 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).
- **Maximum Measurement Rates**: Stand alone: 2-2/3 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.
- **Agency Approvals**: CE.

**ACCESSORIES**

- **HM28-0**: 1/8” NPT Adapter 1 piece ........................................... $47.50
- **HM28-1**: Communication Software & Cable .................................. $111.00
- **HM28-2**: Universal Power Adapter ............................................. $206.00

**OPTION**

For NIST traceable calibration certificate, use order code NISTCAL-MD ............................................. $75.00

**Series 490**

**Wet/Wet Handheld Digital Manometer**

Liquid & Gas Pressure Measurement, ±0.5% FS Accuracy

**SPECIFICATIONS**

- **Service**: Compatible gases & liquids.
- **Wetted Materials**: Without valve: 316L SS. Additional wetted parts with 3-way valve option: Buna-N, silicone grease, PTFE, brass 360, copper, reinforced acetal copolymer.
- **Accuracy**: ±0.5% FS, 60 to 78°F (15.6 to 25.6°C); ±1.5% FS from 32 to 60°F and 78 to 104°F (0 to 15.6°C and 25.6 to 40°C).
- **Pressure Hysteresis**: ±0.1% of full scale.
- **Pressure Limits**: See chart.
- **Temperature Limits**: 32 to 104°F (0 to 40°C).
- **Storage Temperature Limits**: -4 to 176°F (-20 to 80°C).
- **Display**: 0.42” (10.6 mm) 4 digit LCD. Capacity is 65,535 readings.
- **Resolution**: See chart.
- **Power Requirements**: 9 V alkaline battery, installed non-functional, user replaceable.
- **Weight**: 14.1 oz (400 g).
- **Connections**: Two 1/8” (3.18 mm) female NPT.
- **Agency Approvals**: CE.

**Model** | **Range** | **bar** | **psi** | **in Hg** | **kPa** | **FTWC** | **in H.C.** | **mm Hg** | **mbar** | **Maximum Pressure** |
---|---|---|---|---|---|---|---|---|---|---|
490-1 | 0-15.00 psi | 1.034 | 15.00 | 80.54 | 103.4 | 34.60 | 415.2 | 77.5 | 775 | 1034 | 30 psig |
490-2 | 0-30.00 psi | 2.069 | 30.00 | 61.90 | 206.9 | 69.20 | 830.4 | 155.1 | 1551 | 2069 | 60 psig |
490-3 | 0-50.00 psi | 3.447 | 50.00 | 101.8 | 344.7 | 115.3 | 1384 | 2585 | 2585 | 3447 | 100 psig |
490-4 | 0-100.0 psi | 6.895 | 100.00 | 203.6 | 689.5 | 230.7 | 2768 | 5171 | 5171 | 852 | 200 psig |
490-5 | 0-200.0 psi | 13.79 | 200.00 | 407.2 | 1379 | 461.3 | 5536 | 1018 | 1018 | 1379 | 400 psig |
490-6 | 0-345.0 psi | 23.87 | 345.00 | 801.0 | 2387 | 709.5 | 7512 | 1505 | 1505 | 2387 | 600 psig |

**A-402A, Carrying Case** — Tough gray nylon pouch protects any Series 490 Wet/Wet Handheld Digital Manometer. Double zipped for quick and easy access. With belt loop that snaps closed.

**Price**: $41.75

**Series 490 Digital Manometers** are versatile, hand-held, battery operated manometers available in several basic ranges for positive or positive differential pressure measurement and can tolerate most liquid media compatible with 316LSS.

A memory function allows storage of up to 40 readings for later recall and a backlight provides auxiliary lighting for hard-to-see locations. Standard are a hold feature and both visual and audible overpressure alarms. A new feature added to the Series 490 is a field adjustable damping. This allows the user to choose the level of display averaging rate corresponding to the fluctuation level common in many applications. A 9 V alkaline battery is included that provides up to 100 hours of operation.

**Series 490, Digital Manometers** ............................................. $299.00

**OPTION**

For NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: 490-1-NIST ............................................. $75.00

③ Items are net priced and are not subject to any discount.

**Series 490 Digital Manometers** are versatile, hand-held, battery operated manometers available in several basic ranges for positive or positive differential pressure measurement and can tolerate most liquid media compatible with 316LSS. A memory function allows storage of up to 40 readings for later recall and a backlight provides auxiliary lighting for hard-to-see locations. Standard are a hold feature and both visual and audible overpressure alarms. A new feature added to the Series 490 is a field adjustable damping. This allows the user to choose the level of display averaging rate corresponding to the fluctuation level common in many applications. A 9 V alkaline battery is included that provides up to 100 hours of operation.

**Series 490 Digital Manometers** ............................................. $299.00

**OPTION**

For NIST traceable calibration certificate, add suffix -NIST to model numbers. Example: 490-1-NIST ............................................. $75.00

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