



## DESCRIPTION

The submersible, portable Meter-Master Model 100P Pressure Recorder records static pressure over time. A rocker switch toggles the recording on/off and initiates a test of the pressure sensor pickup. The current pressure may be checked at any time without interrupting a recording session using either the LED signal light integral to the rocker switch or the Model 100 Program's Realtime Display. The Model 100P has a large memory and is extremely accurate due to its factory calibration under various combinations of temperature and pressure.

The Model 100 Program software provides a variety of report and graph options. Data may easily be exported into widely used software such as Excel® and Word®.

The pressure sensor is located inside the recorder case in order to prevent damage, and an external hose permits connection to a pipe. All hose fittings are stainless steel and include a quick connect for attaching the hose to the recorder and a 1/4" NPT male/female fitting for attaching the hose to a pipe fitting. An integral carbon steel bleed valve is available at no extra cost to purge air from the hose. Hydrant adapters are also available as accessories.



## FEATURES

- **Quick/Easy Setup**
- **Portable**
- **Rugged**
- **High Resolution**
- **Securable**
- **Submersible**
- **Electronic Data**
- **RF Communications**
- **Temp. Compensated**
- **Large Memory**
- **Dual Memory Options**

## APPLICATIONS

- **Customer Service**
- **Pressure Complaints**
- **Hydraulic Modeling**
- **Hydrant Evaluation**
- **Valve Evaluation**
- **Pressure Management**
- **Pressure Testing**
- **Leakage Control**

*Specifications on second page ...*

# MODEL 100P SPECIFICATIONS

- **Size:** 8.6" x 5.4" x 2.1" (225 mm x 139 mm x 54 mm).
- **Weight** (including internal batteries; excluding hose): 3.75 lbs. (1.7 kg).
- **Portable, Submersible Electronic Recorder:** No moving parts or charts.
- **Pressure Sensor:** 0-300 psi. Sensor located inside recorder case to avoid handling damage.
- **Detachable 6' External Hose With Stainless Steel Fittings** for connection to a pipe (any hose length may be specified). Pipe fitting is 1/4" NPT male with 1/4" female NPT adapter.
- **Easy-to-Use On/Off Rocker Switch** design to toggle recording on/off.
- **LED Signal Light** integral to the rocker switch indicates the current pressure range by flashing once for each 10 psi of pressure or portion thereof.
- **Computer, Minimum Requirements:** receptacle for RS232 cable (9 pin); Windows (3.1, 3.11, 95, 98, 2000, ME, XP or NT); Pentium processor; 16MB RAM; 100MB free hard disk space. (Program files use 12MB of hard disk space; swap space plus real memory should be at least 30MB.)
- **Durable ABS/Polycarbonate Case** with integral handle to chain unit for security.
- **Pressure Offset to Account for Current Atmospheric Pressure:** Zero pressure set in field by depressing rocker switch for 20 seconds or by software command.
- **Dual Memory Option:** Low resolution memory partition available for continuous recording of 15, 30, or 60 minute pressure readings in ASCII format.
- **RF Communications Ready:** Individually addressable in a wireless bus environment.
- **Capacity to Make 20 Records:** Recording can be started/stopped 20 times before downloading. Brief records of less than one data storage interval in length are ignored.
- **Variable Data Storage Interval:** 5 interval settings: 1, 5, 10, 30, and 60 seconds.
- **Data Storage Capacity:** 260,000+ intervals. Provides the following recording periods: 1 second interval = 3 days; 5 sec. = 15 days; 10 sec. = 30 days; 30 sec. = 90 days; 60 sec. = 180 days. Recording stops when memory is used up; unit will not overwrite.
- **Overnight (14 hours) Battery Charging.**
- **Low Battery Power-Down:** Automatically stops recording and powers-down when battery is low to preserve recorded data and avoid battery damage.
- **Units Of Measure:** PSI, Feet, Metres, Bars, Kilopascals. Additional units may be added to the database.
- **Realtime Display** shows current pressure and temperature on your PC without interrupting recording.
- **Temperature Compensation** is calibrated under environmental conditions at factory.
- **External Hose** is rated at 250 psi working pressure, 1,000 psi burst pressure. Hose temperature rating is -40° to 185° F.
- **Accuracy, Full Scale:** +/- 0.1%.
- **Combined Linearity and Hysteresis:** +/- 0.1%.
- **Resolution:** 0.01 PSI.
- **Temperature Effect on Span:** +/- 0.1%.
- **Long Term Stability of Full Scale Reading:** +/- 0.15% per year.
- **Absolute Pressure Sensor Used for Submersibility.**
- **Temperature Ranges:** Compensated: 0° to 50° C. Operating: -21° to 65° C.
- **Internal Power:** 2 rechargeable lead-acid, 2 volt, 5 ampour batteries. Internal battery life (approx.): 3+ months. Relief valve allows battery gases to escape when overcharging occurs.
- **External Battery or AC Operation** for extended recording time.
- **Two Year Warranty.**



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