

Sonic Water Level Measurement

Eno Scientific Well Sounder 2010 Pro

The Eno Scientific Well Sounder 2010 Pro is a portable sonic water level meter that uses sound waves to measure static water levels in wells, piezometers, and boreholes. The instrument features an internal data logger that can be configured to log automatically or at time intervals. If there are known defects in the well, the Well Sounder Pro can be set to ignore interferences.

Simply place the sensor into the well vent opening and within seconds static water depths are displayed.



FEATURES

- Automatic temperature compensation
- Calculates drawdown and recovery rates
- Immediate data capture
- Extended 2 GB non-volatile memory – time & date stamped
- Power save mode
- Remote communications available

KIT INCLUDES

- Well Sounder 2010 Pro Meter
- Remote Probe
- User Manual
- Quick Start Guide
- US Groundwater Temperature Chart
- USB Cable
- Heavy Duty Carry Case

SPECIFICATIONS

MEASUREMENT:

| | |
|-------------------|---|
| Units | English (decimal ft. or ft. & in.), Metric |
| Resolution | .05 ft. (1 cm) |
| Accuracy | .1 ft. (3 cm) |
| Range | 9 to 7000 ft. (3 to 600M) |
| Update Time | ~ 1 sec @ 500 ft. (150M), ~4sec @ 2000 ft. (600M) |
| Time to First Fix | ~4 sec. @ 500 ft. (150M) |

LOGGING:

| | |
|-------------------------|--|
| Memory | Nonvolatile flash memory for 13,000 data points in addition to calibration and user data. |
| Extended Memory | 2GB nonvolatile flash memory for 25 million data points in a CSV or text compatible file system. USB connection appears as a mass storage device showing ASCII data files sorted by well ID. |
| Automatic Logging Rates | 1 sec to 60 minutes per sample |
| Manual Logging | On key press |

POWER:

| | |
|---------------------------|---|
| Internal Power | 6 AA Alkaline batteries |
| Battery Life | Up to 80 hours continuous Up to 21 days in power saver mode |
| External Power (optional) | 6.5 to 12VDC at 80ma max. Do not exceed 16V Connector 5.5mm x 2.1 mm center post positive |
| Real Time Clock | Li Ion 3V battery CR2032 |

ENVIRONMENTAL:

| | |
|-------------|------------------------------|
| Temperature | -10° to 110°F (-20° to 45°C) |
| Humidity | 10 to 90% non-condensing |

PHYSICAL:

| | |
|-----------------------|------------------------------------|
| Maximum Well Diameter | 12" unless sounding tube is used |
| Meter Dimensions | 3.5" x 7.5" x 1.5" (19 x 9 x 4 cm) |
| Meter Weight | 14 oz. (390g) |
| Probe Dimensions | 6" x 3" x 3" (16 x 8 x 7 cm) |
| Probe Tip Diameter | 5/8" (1.7 cm) |
| Cable Length | 70" (1.8M) |
| Cable Weight | 13 oz. (355g) |
| Shipping Dimensions | 13" x 17" x 5" (33 x 44 x 13 cm) |
| Shipping Weight | 5 lb. (2.3Kg) |

FEATURES:

| | |
|--------------------|----------------------|
| Display | 2 x 16 character LCD |
| Temp. Compensation | In probe |

INPUT/OUTPUT:

| | |
|---|--|
| Acoustic Probe with External Temperature Sensor | |
| Serial Port |Bi-directional 300-57600 baud, 8 data bits, one stop bit. |
| USB Port for File System Access | |
| Flow Meter Input (with adapter) |Pulse counting |

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