

The uDL1 is a high accuracy, low cost data logger designed specifically for cathodic applications. The device is very simple to use and has a large LCD that can locally verify the readings. Measurement storage capacity of 500,000 or 1,000,000 readings and long life rechargeable battery allow the device to capture readings for over 6 months. An optional internal GPS receiver provides an accurate time reference and site geo-location coordinates. A small physical size and wide operating temperature range make this device ideally suited for general field use.



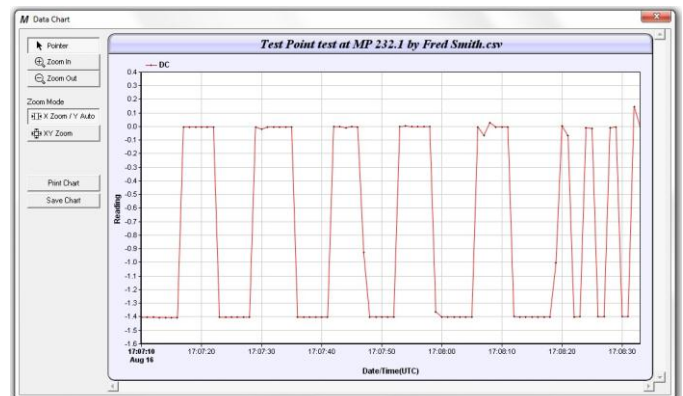
Approximate physical size

Features:

- Very small size 3.5" x 1.6" x 0.72" (89mm x 40mm x 18mm) allows use within standard CP test stations
- Water-resistant (non-submersible) enclosure for harsh environments
- Wide operating temperature range -4°F to +140°F (-20°C to +60°C)
- Integral rechargeable battery provides over 6 months or 1,000,000 readings per charge
- 3½ digit wide-temperature LCD for local voltage monitoring with no additional equipment
- Automatically powers on when measurement cable is connected
- One galvanically isolated bi-polar analog input
- DC Ranges +/-150mV, +/-20V, and +/-175VDC
- AC Ranges 110mV, 14V, and 123VAC True RMS
- Can measure DC and AC simultaneously
- DC measurements have >65dB of 50/60Hz AC rejection for stable and accurate readings
- Measurement accuracy over -4°F to +140°F (-20°C to +60°C): +/-0.25% +100uV DC low, +/-0.5% +12mV DC medium, +/-0.5% +100mV DC high, +/-0.3% +80uV AC low, +/-0.65% AC medium, and +/-0.45% +80mV AC high
- High impedance >20Mohm input capable of directly measuring a reference cell
- Lightning and surge protected
- Can measure and log internal temperature
- Non-volatile 500,000 (Basic Model) or 1,000,000 (Advanced Model) measurement storage memory
- All measurements are time and date stamped
- User configurable sample rate from 1 per second to 1 per 12 hours
- Advanced model has fast DC sample mode of 10 samples per second
- USB connection to PC laptop for configuration, data uploading and battery charging
- Easy device configuration and data uploading through a PC-based graphical user interface
- PC chart graphical preview of logged data
- Comma Separated Value (CSV) data file export



Positioned inside a CP test station



Data Preview Graph

Basic uDL1 (Kit P/N: A20A03UDL01) – No GPS, 500,000 measurement memory.

Advanced uDL1 (Kit P/N: A20A03UDL02) – Internal GPS, 1,000,000 measurement memory, fast DC sample mode of 10 samples per second.