

**503 ELITE HYDROPROBE™**  
**DIRECT READING DEPTH SOIL MOISTURE PROBE**

503 ELITE Hydroprobe by CPN®, is a subsurface, soil moisture measurement probe for determining the moisture content of soils at various depths. It is the ultimate aid in irrigation scheduling, agronomic research and environmental monitoring.

The ELITE has been redesigned to offer a menu driven operation supported by a large, easy-to-read, 40 character LCD display and 12 button layout. This layout allows intuitive navigation to additional software features. It also allows the operator to easily set-up and label new projects using the alpha-numeric display and save additional notes for each. Project data can be downloaded to a USB drive or PC using a standard USB cable.

The ELITE's new, NiMH battery pack allows hundreds of hours of field operation between charges, and recharges in less than 4 hours. By replacing the heavier alkaline batteries, the new 503 ELITE is lighter and easier to carry.



**CPN 503 ELITE Hydroprobe™**

**APPLICATIONS**

**Irrigation Scheduling:** (For commercial management and consulting services) Scheduling Program: Moisture readings from the 503 ELITE can be downloaded to irrigation scheduling programs to build a field history file and generate reports of soil moisture status and irrigation forecasts. This allows an irrigator to improve crop yields and quality, determine when and how much to irrigate, monitor root development, improve irrigation efficiency and optimize system design. Ideal for consultants and farm managers.

**Environmental and vadose zone monitoring:** The 503 ELITE is an effective tool for monitoring moisture and contaminant movement in the vadose zone to protect ground-water quality.

**FEATURES:**

- ▶ Backlit 4 x 20 LCD display with 9mm characters for maximum visibility
- ▶ Multi-language options – English, Spanish, French & German
- ▶ New, long-lasting Nickel-Metal Hydride (NiMH) rechargeable battery pack
- ▶ Upgraded, redesigned electronics make 503 ELITE more user-friendly
- ▶ Data transfer to PC via USB drive OR data cable
- ▶ Internal SD card provides storage for over 10,000 test readings
- ▶ Storage and recall of 32 linear calibrations for multiple tubing types and varying soil conditions
- ▶ Options allow operator to select: Time of test, units of measurement and logging format
- ▶ Lightweight and water resistant

**SPECIFICATIONS**

STANDARDS	Meets and exceeds ASTM D5220 requirements
MEASUREMENT RANGE	0.0 to 6.0 in/ft (0.0 to 0.50 gcc)
PRECISION AT 1 MIN.	±0.024 in/ft (±0.002 gcc) at 2.88 in /ft. (0.24 gcc)
COUNTING TIME	15, 30 or 60 second intervals OR user selectable
OPERATING TEMPERATURE	32° to 140°F (0° to 60°C)
POWER	Nickel-Metal Hydride (NiMH) battery pack (rechargeable)
DISPLAY	Large 4 Line by 20 character LCD display with backlight
UNITS	Operator selectable: counts, count ratio, gcc, pcf, ipf, cpc, % moisture
MEMORY STORAGE	Minimum 2Gbyte internal storage for calibrations and data storage
DATA INTERFACE	Upload data to PC via USB port or cable
CALIBRATION	32 operator selectable calibrations
NEUTRON SOURCE	Max 50 mCi (1.85 GBq) Americium-241/Be
ENCAPSULATION	Double-sealed capsule
WEIGHT	Gauge Weight: 14 lbs. (6.35 kg) Shipping Weight: 33 lbs. (15 kg)

