Cross-Hole Analyzer Specifications (CHAMP-Q)  

Main Unit

Physical:
Size: 320 X 250 X 68 mm (12.6 x 9.8 x 2.7 inches)
Weight: 5 Kg (11 lbs.)
Temperature range: 0 to 40°C (32 to 104° F) operating; -20 to 65°C (-4 to 149° F) storage
Display: 26.4cm (10.4”), sunlight readable, resolution 1024 X 768
Built in capacitive touch screen
Video Outputs: HDMI, VGA
Power: 4 hour continuous data collection with internal 12V battery, or 100 – 240 VAC power supply
Charging Time: 6 Hours max.

Electronic:
Microsoft Windows® 10 Operating System
60 GB SSD internal drive
Ethernet port
4 USB ports
12 bit analog to digital (A/D) converter
Sampling rate: 500 kHz, 1 MHz and 2 MHz, user selectable (equivalent measuring accuracy 2μs, 1μs and 0.5μs)
Scan rate: 32 scans/seconds
Record size: 250, 500 and 1000 points, user selectable
User adjustable gain, trigger level and transmit power level

Other:
Operates in English or SI Units
Furnished with CHA-W software
Full one year warranty
Technical manual included

Probes

Physical:
Size: 215 mm length x 25 mm diameter
Element: ceramic
Housing: nickel plated brass
Independent depth encoder for each probe
Maximum measuring distance (probe separation): 3m

Electronic:
Receiver: tuned to 45 KHz nominal
Transmitter frequency (nominal): 45 KHz
Transmitter voltage: 200, 400, 600 or 800 Volts (user selectable)

Cables

Cable material: heavy duty polyurethane outer jacket
Cable length: 60, 100 or 150 m
Cables spooled over tripod (standard) or with optional Motorized Probe Deployment System (60 m only)

**Motorized Probe Deployment System**

**Main Unit**
Size: Two 380mm X 480mm X 405mm spools
Weight: 11.3Kg each
Includes 60 m cable, detachable from spool
Includes depth encoder for each probe, attached to frame

**Motor Control Unit**
Size: 240mm X 160mm X 90mm
Weight: 1.6 Kg
Powered by either external battery (8 hours duration), 12VDC car battery, or 100 – 240 VAC with 12VDC converter
Fast charger to recharge the external battery in 4 hours
Variable probe pull rate: 0.150 to 0.915 m/sec (low, medium, high speed selection)
Resettable circuit breaker motor protection
Operating temperature range: 0° to 40°C
Storage temperature range: -10° to 65°C

**Other**
Includes pulley for placement at the tube
Includes roller guide for routing cable through re-enforcement rebar cage or over casing