

Direct Image® Electrical Conductivity System (EC)



FI6000 Field Instrument Specifications

Vertical Resolution 0.05 ft 0.02 m
 Data Rate 20 samples per second
 Maximum Depth (with standard cordset) 80 ft. 24 m
 Power Requirements 90-230 VAC @ 3A
 Operating System Embedded DOS
 Dimensions 17 in. x 7.5 in. x 13.5 in.
 432 mm x 191 mm x 343 mm
 Weight 18.5 lbs. (8 Kg)
 Finish: Gray molded ABS plastic with yellow front and back overlays.
 Gray molded ABS plastic front and back transport covers with carrying handles.

Obtain Accurate and Reliable Lithology Information

- Descriptive Log naming via alpha/numeric key pad
- Lithologic logging of unconsolidated soils and sediments in 20 to 30 percent of the time as conventional methods
- ASCII formatted data file
- Measures soil conductivity and probing speed simultaneously
- Real time or "On Screen" data logging

Cost-Effective Alternative to Borehole Logging or Cone Penetrometers

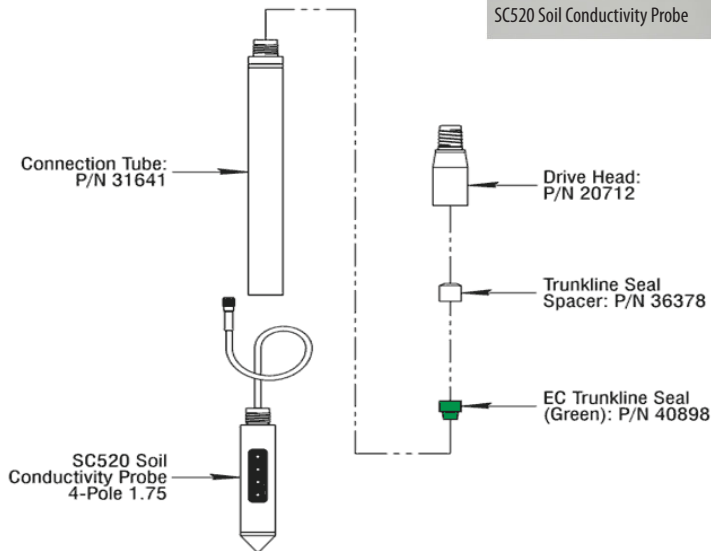
- Limited soil sampling required to verify log response
- No drill cuttings generated during the logging process

Field Applications

- Determination of the thickness and lateral extent of aquifers, aquitards, and other lithologic units based on electrical conductivity logs
- Construction of geologic cross sections based on EC logs
- Delineation of aquifers and aquitards in the subsurface based on EC logs
- Assist in locating appropriate lateral and vertical placement of wells and well screens
- Construct contour maps on the upper surface of sand formations
- Construct contour maps on the surface of an aquitard or impermeable bedrock contact based on EC logs to determine potential DNAPL flow paths and collection points.
- Construction of isopach maps (thickness) for lithologic units based on EC logs.



SC520 Soil Conductivity Probe



Conductivity Probe Specifications

- SC520 Array... Wenner Probe for 1.5 inch probe rods
 1.75 in. (44 mm) probe diameter
 Wenner - 4 electrodes, 3 in. (76 mm) length
 Dipole - 2 electrodes, 1 in. (25 mm) length
- SC400 Array... Wenner Probe for 1.25 inch probe rods
 1.5 in. (38 mm) probe diameter
 Wenner - 4 electrodes, 3 in. (76 mm) length
 Dipole - 2 electrodes, 1 in. (25 mm) length
- SC300 Array ... Dipole Button Probe, 1.0 in. thread
 1.1 in. (28 mm) probe diameter
 Dipole - 2 electrodes, 0.5 in. (12.7 mm) length
- SC310 Array ... Expendable Button Probe, unthreaded
 1.1 in (28 mm) probe diameter
 Dipole - 2 electrodes, 0.5 in. (12.7 mm) length

