



IF IT'S WORTH BUILDING, IT'S WORTH TESTING

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Digital pH/Temp/mV Meter with electrode, carrying case and pH 4 & 7 buffers

450-060

Soil water sampler, depth 30 cm, diameter 48 mm

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29-3720

Dynamic Cone Penetrometer 8Kg Hammer (Trl Design).



Digital pH/Temp/mV Meter with electrode, carrying case and pH 4 & 7 buffers

Code: **430-020**

Product Group: **Paqualab Test Meters**

Robust waterproof case offering IP66/67 protection

Manual/automatic temperature compensation

Easy to use re-calibration function

The 430-020 pH meter is a three-in-one instrument that features a large easy to read, LCD display that indicates pH over the range of -2 to 16 pH with a resolution of 0.01 pH, mV over the range of -1000 to 1000 mV and temperature over the range of -39.9 to 149.9°C with a resolution of 0.1°C. The LCD display features both low battery indication and a user selectable backlight.

The pH readings are either manually or automatically temperature compensated over the range of 0 to 100°C. To automatically compensate, it is necessary to utilise a thermistor temperature probe. Each unit incorporates an auto-power off facility that automatically turns the instrument off after ten minutes, maximising battery life.

The 430-020 has an integrated rubber seal to ensure complete water resistance and helps to reduce the possibility of damage in harsh environments. At the touch of a button, the instrument will automatically re-calibrate (two-point autocal) itself when used in conjunction with pH buffer solutions.

Each unit incorporates an easy to use BNC connector and Lumberg screw-locking type connector.

Further Information

Specification

Range	Resolution	Accuracy
-2 to 16 pH	0.01 pH	± 0.02 pH
± 1000 mV	1 mV	± 1 mV
-39.9 to 149.9 °C	0.1 °C	± 0.4 °C (-10 to 70 °C)
Battery	3 x 1.5 volt AAA	
Battery Life	Maximum 5 years (2500 hours)	
Sensor Type	Combination electrode/ thermistor	
Display	12 mm LCD	
Dimensions	32 x 71 x 141mm	

Product Sheet

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Weight

230 grams

Spares/Consumables



Spare pH electrode for use with 430-020 meter

Code: [430-020/10](#)



Soil water sampler, depth 30 cm, diameter 48 mm

Code: 450-060

Product Group: Soil water samplers

- Easy installation.
- Requires no maintenance.
- Ideal for nitrate monitoring.
- 3 sampler sizes available.

Samples water from saturated and unsaturated soils.

This range of soil water samplers can be installed either above or below the water table. They are designed to collect soil water, which can then be extracted from the device and taken to the laboratory for analysis. The sampler is installed into a hole made with a screw or bucket auger.

A negative pressure of up to 85 centibar is applied to the tube using a hand pump. Water enters the sampler through the porous ceramic cup at the end of the sampler. Water samples can be collected as required utilising the universal extraction kit (450-066). The rate of water accumulation depends on the soil type and moisture content.

Nitrate leaching from fertiliser applications can be monitored simply and effectively using these instruments.

Please note the 450-066 Universal extraction kit is required for the operation of soil water samplers.

Each soil water sampler has; plastic tube, ceramic cup, stopper assembly, neoprene tubing and pinch clamp.

Specification

Sampler length	30 cm
Outer diameter	48 mm
Weight	0.26 kg
Dimensions	305 x 127 x 127 mm

Accessories



Universal Extraction Kit

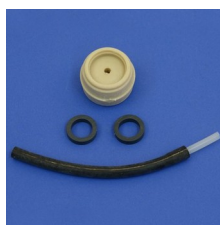
Code: 450-066

Spares/Consumables



Nylon Tube 7.5 Metres

Code: 450-060/10



Stopper Assembly

Code: 450-060/12

Alternatives



Soil water sampler, depth 60 cm x 48 mm diameter

Code: 450-062



Soil water sampler, depth 90 cm x 48 mm diameter

Code: 450-064



Pocket Penetrometer.

Code: [29-3729](#)

Product Group: [In-situ Testing](#), [Pocket Penetrometer](#), [Plate Bearing Apparatus](#)

- Direct-reading scale in tons/sq. ft. and kg/sq. cm.
- Ground and polished stainless steel loading piston.
- Calibrated spring and penetrometer body plated for rust resistance and long life.
- Convenient belt-loop style carrying case.
- Optional Adapter Foot for testing very soft materials.

The Pocket Penetrometer was originally developed for use by field personnel in checking visual classification of soils. Data was compiled on several thousand unconfined compressive strength tests of silty clays and clayey soils against the penetrometer readings to develop the scale.

Further Information

IMPORTANT: the readings obtained from the pocket penetrometer do not replace laboratory test results due to the fact that a small area penetration test is inherently liable to give misleading results. The instrument should not be used for obtaining foundation design data.

Specification

Range	0.25 to 4.5 tons/sq. ft. (kg/sq. cm).
Scale Divisions	0.25 tons/sq. ft. (kg/sq. cm).
Load Piston	1/4" (6 mm) diam.; stainless steel.
Carrying Case	Canvas; belt-loop style.
Dimensions	3/4" diam. x 6-3/8" l. (19 x 162 mm).
Weight	Net 7 oz. (198 g).

Accessories



Adaptor Foot

Code: [29-3729/10](#)

Alternatives



C.O.E Cone Penetrometer

Code: [29-3741](#)



Proctor & Mortar Penetrometer Set

Code: [29-3935](#)



Proving Ring Penetrometer

Code: [29-3739](#)



Dynamic Cone Penetrometer 8Kg Hammer (Trl Design).

Code: [29-3720](#)

Product Group: [In-situ Testing](#)

The TRL (Transport Research Laboratory) Dynamic Cone Penetrometer (DCP) is used for rapid in-situ measurement of the structural properties of existing road pavement constructed with unbound materials. The unit incorporates an 8 kg weight with a drop of 575 mm, and a 20 mm diameter cone fitted to the end of the shaft, allowing measurements to be made down to a depth of approximately 850 mm.

Readings are usually taken after a set number of blows, changing the number according to the strength of the layer being penetrated. For good granular bases, readings every five to ten blows are satisfactory, but for weaker sub-base layers and subgrades, readings every one to two blows may be appropriate.

The DCP requires three operators, one to hold the instrument in a vertical position, one to raise the hammer and let it fall and one to record the results. A typical test takes only a few minutes, providing a very efficient method of obtaining information which would otherwise require the excavation of test pits. Where pavement layers have different strengths, boundaries can be identified and layer thickness determined.

Further Information

Supplied complete with all necessary tools, assembly and operating instructions.

Spares/Consumables



Spare Cone for Dynamic Cone Penetrometer.

Code: [29-3720/10](#)