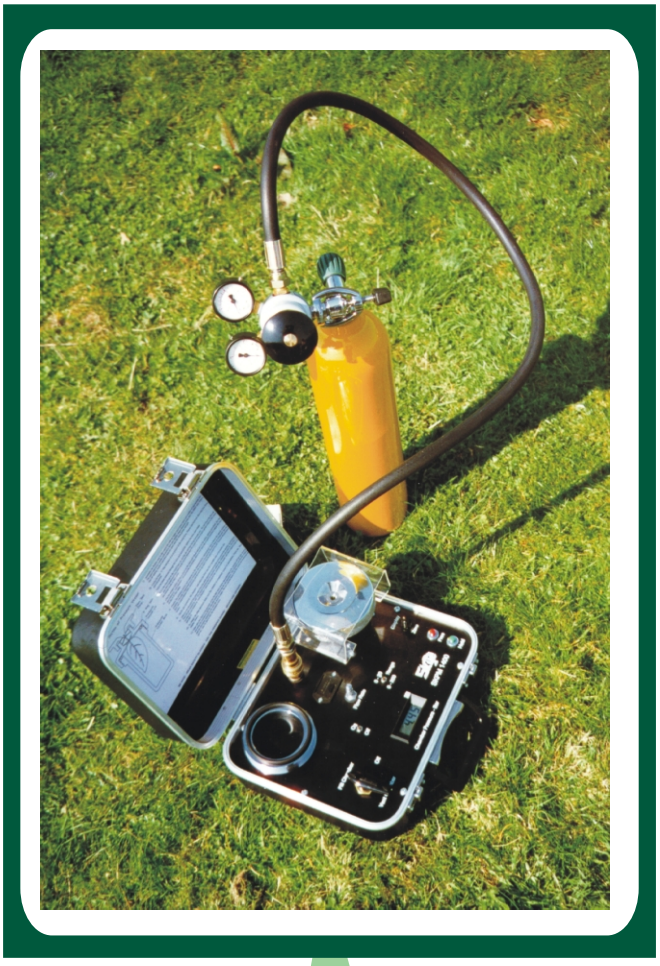
PLANT MOISTURE

Digital Plant Moisture System



Measures Plant Water Potential using the Scholander pressure bomb technique

Digital display with HOLD feature for accurate measurements

Many safety features - solid brass chamber, screw thread closure, clear perspex shield and eye protection included

Choice of chamber heads for fleshy or woody samples

3 models for 0-40 bar, 0-50 bar or 0-80 bar maximum working pressure

Skye have been designing and manufacturing digital plant moisture systems since 1987. Our policy of listening to our users comments and requirements have resulted in several design upgrades and additions over the years. The range now includes 6 models in both digital and analogue formats.

The systems features a high quality design with user safety having the highest priority. The large sample chamber is machined from a single solid piece of high grade brass. The chamber heads have a unique multi-start thread giving easy tightening.

This design also ensures that the chamber can never be pressurised unless the head is secure.

Each system is individually tested and certified by an independent test house, to twice its working pressure. A clear perspex shield and safety eye spectacles are provided with each system.

The choice of 3 maximum working pressures and 2 chamber heads makes the system suitable for many different kinds of plant measurements. From soft, fleshy specimens to grasses and needles to harder woody species.

The water potential pressure of the plant sample is read off the digital display when moisture is first seen coming from the freshly cut stem.

For ease of use the HOLD feature allows the display to be frozen at the measurement point, enabling the user to concentrate on the specimen and not on the display.

The system is highly portable. It can be used with small scuba diving gas bottles in the field, or with standard large gas cylinders in the laboratory.

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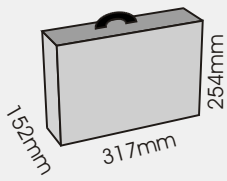
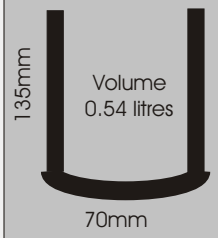
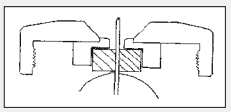
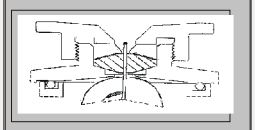
SPECIFICATIONS

Dimensions	Chamber Dimensions	Low Pressure Head	High Pressure Head	Weight
		 Gentle push fit seal	 Screw clamp seal	SKPM 1400 System 9Kg SKPM 1435 Gas Bottle 5Kg

Readout	Sensor	Resolution	Power	Operating Pressure	Safety Valve
Digital 12.7mm high LCD in Bar. 2 decade ranges	Silicon bonded semi conductor pressure transducer	0.01 Bar (1KPascal)	Alkaline 9V PP3 battery	0-40 bar 0-50 bar 0-80 Bar	Factory set to maximum operating pressure

Test pressure	Gas used	Panel Gas Connector	Flexible Hose	Controls	Chamber
Twice operating pressure	Nitrogen Compressed Air Carbon dioxide	DHS 440BP	3/8 BSP female	Chamber Fill / Vent valve Chamber Fill / Rate Control	Solid Brass, Chrome plated multi-start thread for head fixing

ORDERING INFORMATION

System

SKPM 1400/40	Portable Plant Moisture System - max. Working pressure 40 bar - supplied with low pressure head, 6mm specimen adapter & set of 10 stem seals, & flexible hose to connect Plant Moisture System to regulator / bottle
SKPM 1400/50	Portable Plant Moisture System - max. Working pressure 50 bar - supplied with high pressure head, 3mm lower compression washer, 4mm upper compression washer, blank stem seal, flexible hose to connect Plant Moisture System to regulator / bottle
SKPM 1400/80	Portable Plant Moisture System - max. Working pressure 80 bar - supplied with high pressure head, 3mm upper compression washer, 4mm lower compression washer, blank stem seal flexible hose to connect Plant Moisture System to regulator / bottle

Accessories

SKPM 1435	Small Air Bottle - usually 3 litre
SKPM 1437	Regulator & 'A' Clamp for bottle
SKPM 1450	Set of 5 rubber stem sealing washers for high pressure head (1.5, 2.5, 4, 6 and 8mm)
SKPM 1460	Set of compression washers for high pressure head - 2 x brass (5mm and 9mm) and 2 x delrin (6mm and 10mm)

Plus many more, please enquire

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