

# PLANT MOISTURE

## Plant Moisture System

- Measures Plant Water Potential using the Scholander pressure bomb technique
- Low cost system using a dial gauge readout of pressure
- 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 latest being the production of this analogue dial gauge version.

By replacing the original electronic pressure transducer with a traditional dial gauge readout, considerable savings are made making this system ideal for projects with a low budget.

The system uses the same 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.

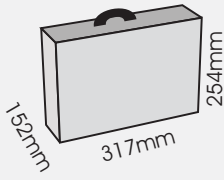
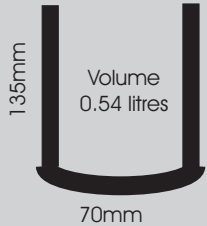
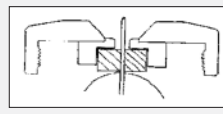
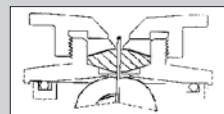
The water potential pressure of the plant sample is read off the large, clear dial gauge when moisture is first seen coming from the freshly cut stem.

The gauge has a maximum pressure needle which can be used to 'freeze' the reading, allowing the user to concentrate on the specimen and not on the gauge.

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.

**Skye**

## SPECIFICATIONS

Dimensions	Chamber Dimensions	Low Pressure Head	High Pressure Head	Weight
		 Gentle push fit seal	 Screw clamp seal	SKPM 1405 System 9Kg SKPM 1435 Gas Bottle 5Kg
Operating Pressure	Safety Valve	Test Pressure	Gas Used	Readout
0-40 bar 0-50 bar 0-80 bar	Factory set to maximum operating pressure	Twice operating pressure	Nitrogen Compressed Air Carbon Dioxide	Dial pressure gauge in units of Bar with maximum pressure reached indicator
Power	Panel Gas Connector	Flexible hose	Controls	Chamber
No Power Required	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 1405/40	Analogue Plant Moisture System - max. Working pressure 40 bar - supplied with low pressure head, 6mm specimen adaptor, set of stem seals, & flexible hose to connect PMS to regulator/bottle
SKPM 1405/50	Analogue Plant Moisture System - max. Working pressure 50 bar - supplied with high pressure head, set of compression washers & rubber stem seals, & flexible hose to connect PMS to regulator/bottle
SKPM 1405/80	Analogue Plant Moisture System - max. Working pressure 80 bar - supplied with high pressure head, set of compression washers & rubber stem seals, & flexible hose to connect PMS to regulator / bottle

### Accessories

SKPM 1435	Small Air Bottle - usually 3 litre
SKPM 1437	Regulator & 'A' Clamp for bottle
SKPM 1445	Specimen holding adaptor - 10mm central hole or a slit (priced individually)
SKPM 1420	Volume reducers (set of 2)

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