



SKPM 1400 SERIES PLANT MOISTURE SYSTEM

Skye have been designing and manufacturing 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 feature 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.

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 species.

The water potential pressure of the plant sample is read from either the digital or analogue display when moisture is first seen coming from the freshly cut stem. For ease of use the HOLD feature on the Digital version and the maximum indicating pointer on the analogue version 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. We recommend all air bottles supplied by Skye are filled with breathing air by a diving shop or similar establishment to ensure they are checked and tested and are suitable for use.



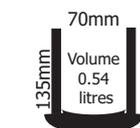
- Measures Plant Moisture Potential
- Digital display with HOLD feature for increased accuracy or analogue display
- Choice of chamber heads for fleshy or woody samples
- 6 models for 40, 50 & 80bar max working pressures with analogue or digital display

PMS SPECIFICATIONS

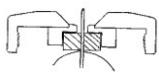
Dimensions:



Chamber Dimensions:

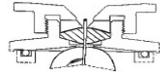


Low Pressure Head



Gentle push fit seal

High Pressure Head



Screw clamp seal

Weight: System: 9Kg

Readout: Dial pressure gauge in units of Bar with maximum indicating pointer or digital 12.7mm high LCD in Bar. 2 decade ranges.

Sensor: Silicon bonded semi-conductor pressure transducer

Resolution: Digital - 0.01 bar (1kPa)
Analogue - 1 bar

Power: Digital - Alkaline 9V PP3 battery
Analogue - No power required

Operating Pressure: 0-40 bar, 0-50 bar, or 0-80 bar

Safety Valve: Factory set to maximum operating pressure

Test Pressure: 1.5 times operating system

Gas Used: Nitrogen
Compressed Air
Carbon Dioxide

Panel Gas Connector: DHS 440BP

Flexible Hose: 3/8 BSP Female

Controls: Chamber Valve (Fill/off/Vent) & Chamber Fill Rate Needle Valve

Chamber: Solid Brass, electroless nickel plated multi-start thread for head fixing

ORDERING INFORMATION

Systems

SKPM 1400/(40, 50, 80) - Digital Systems

SKPM 1405/(40, 50, 80) - Analogue Systems

/40 - 40 bar Systems - Max. Working pressure 40bar. Supplied with low pressure head, 6mm specimen adaptor, set of 10 stem seals and flexible hose to connect PMS to regulator.

/50 - 50 bar Systems - Max. Working pressure 50 bar. Supplied with high pressure head, set of compression washers & rubber stem seals & flexible hose to connect PMS regulator.

/80 - 80 bar systems - Max. Working pressure 80bar. Supplied with high pressure head, set of compression washers & rubber stem seals & flexible hose to connect PMS regulator.

Accessories

SKPM 1435 - Small 3l Air Bottle (empty)

SKPM 1437R - Regulator only

SKPM 1437 - Regulator & 'A' Clamp for bottle (for use with own bottle)

SKPM 1438 - Regulator for bottles supplied by Skye

PLEASE SEE SEPERATE DATASHEET FOR FULL ACCESSORIES AVAILABLE

