



services for

# Weather Testing Systems

**Weathertightness ~ Air permeability ~ Wind Resistance**

- **Calibration - UKAS Accredited Laboratory 0687**

We offer a calibration service for weather testing systems, that also satisfies the requirements of UKAS (ISO/IEC17025). This is an in-house service offers you one contact, and one price for the complete job, with minimum down-time.

- **Upgrades to Existing Systems**

Several existing systems have already been retrofitted with electronic flow meters, differential pressure transducers and digital displays. The result is a substantial reduction of the measurement error, and increased resolution and repeatability. One thermal mass flow meter can replace all three air flow 'rotameters' shown, and one differential pressure transducer can replace all three liquid manometers. This pays for itself in just a couple of years as you now only need two calibrations every year, where you used to pay for six. Additionally, we have the ability to assist you with modifying your system to allow you to test in full **compliance with European Specifications**

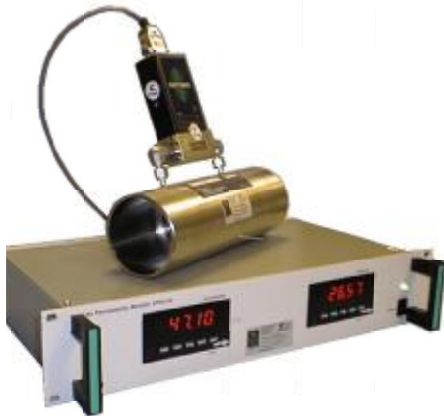


- **Replacement Parts**

Indication fluid, clamps, sealing tape, manometers, flow tubes, nozzles - call us to check availability

- **New Weather Testing Systems**

We build systems that automatically control the air pressure you command, and simply measure resultant permeability. Analogue interfacing allows data logging, acquisition, and even automated testing and report generation, for those who need to.



**Air Permeability Monitor - APM100**

The fundamentals of gas laws dictate that unless corrections are made, 'rotameter' style air flow indicators used in many such systems are prone to large errors due to changes in air temperature and pressure. If you use this style of air flow indicator, look at the calibration reference conditions stated on the side. A one degree difference in your compressed air temperature from that stated will result in a 0.2% error in measurement. Likewise each 0.01bar difference in the pressure within the 'rotameter' from that stated will result in a 0.5% error.

Ever wonder why your specimen passed when tested in house, but failed when sent for external testing?



0687

**Chell Instruments Ltd**  
Folgate House  
Folgate Road  
North Walsham  
Norfolk NR28 0AJ  
England

Tel.: +44 (0)1692 500555  
Fax: +44 (0)1692 500088

E-mail : [sales@chell.co.uk](mailto:sales@chell.co.uk)

Web site : [www.chell.co.uk](http://www.chell.co.uk)

struments