

CERTIFICATE OF CALIBRATION

Issued By Pullman Instruments UK Ltd.

Date of Issue 19 July 2012

Certificate Number
1222789

Page 1 of 2 Pages

Pullman Instruments
Chatsworth House,
Chatsworth Terrace,
Harrogate, HG1 5HT
Tel 01423 720360 Email info@pullman.co.uk

Approved Signatory



A.J.Cox

M. Conboy

Customer : INSTROMET WEATHER SYSTEMS LTD
UNIT 10B, LYNGATE INDUSTRIAL ESTATE, NORTH WALSHAM
NORFOLK NR28 0AJ

Date Received : 19 July 2012

Instrument -	System ID :	PUL36038	Job Number :	268567-1
	Description :	Anemometer		
	Manufacturer :	INSTROMET		
	Model Number :	0-10V DC		
	Serial Number :	-		
	Procedure Version :	12352v01/S		

Environmental Conditions

Temperature :	20°C +/- 2°C	Mains Voltage :	230V +/- 20V
Relative Humidity :	50% +/- 15%	Mains Frequency :	50Hz +/- 0.1Hz

Comments

Customer Order No.
No calibration adjustments or repairs were made to unit.
All measurements traceable to national standards.
Unit tested to manufacturers specification

Traceability Information

<i>Instrument description</i>	<i>Serial number</i>	<i>Certificate number</i>	<i>Cal. Date</i>	<i>Cal. Period</i>
C265 - AIRFLOW 100mm Master Vane	119461	1205223/0812	05/06/2012	104
CM137 - Pace 6000 Pressure Calibrator	3609239	3609239	22/02/2012	52

Calibrated By : L.Nelson

Date of Calibration : 19 July 2012

This certificate provides traceability of measurement to recognised National Standards, and to the units of measurement realised at the National Physical Laboratory or other recognised National Standards laboratories.
Copyright of this certificate is owned by the issuing laboratory and may not be reproduced except with the prior written approval of the issuing laboratory.
This certificate complies with the requirements of BS EN ISO 10012:2003.

CERTIFICATE OF CALIBRATION

Certificate Number
1222789

Page 2 of 2 Pages

Test Title	Tolerance	Applied Value	Reading	Pass/Fail
------------	-----------	---------------	---------	-----------

Test Results

Air Temperature at time of test: - 21.05°C
Air Pressure at time of test: - 1000.8mbar
Air Humidity at time of test: - 50.0% RH

Wind Speed Sensor

5.00m/s 1V	0.40v	1.00v	0.99v	Pass
10.00m/s 2V	0.40v	2.00v	2.10v	Pass
15.00m/s 3V	0.40v	3.00v	3.20v	Pass
20.00m/s 4V	0.40v	4.00v	4.35v	Pass
25.00m/s 5V	0.40v	5.00v	5.30v	Pass
30.00m/s 6V	0.40v	6.00v	6.25v	Pass

Wind Direction

10 Deg 0v	0.40v	0.00v	0.00v	Pass
180 Deg 0v	0.40v	5.00v	5.32v	Pass
360 Deg 0v	0.40v	10.00v	10.25v	Pass

End of Results

Uncertainties

Air Velocity	Max Error 0.62% of reading
d.c.V/d.c.A Meas	0.1V-1000V $\pm 0.0096\%$ -0.0217% rdg 0.1mA-1000mA $\pm 0.0154\%$ -0.0304% rdg
Ohms Meas	10R ± 60 ppm 0.1kR/1kR/10kR ± 45 ppm 100kR ± 60 ppm 1000kR ± 200 ppm 10MR ± 500 ppm
Simulate / Meas Temp	$\pm 0.05\%$ rdg $\pm 0.05^\circ\text{C}$
Low Pressure	0-5000Pa $\pm 1\%$ rdg 0-78m/S $\pm 1\%$ rdg