

CERTIFICATE OF CALIBRATION

Issued By Instruments To Industry Ltd

Date of Issue 07-Jun-10

Serial Number

070610-07

Page 1 of 3 pages

Instruments To Industry Ltd
Instrument House , Woodward Rd
Knowsley Industrial Park
Liverpool L33 7UZ
Tel 0151 546 4943 Fax 0151 548 6262

Approved Signatory

R.Carr

D.Smith

S.P.Ashbrook

Customer : A & N Plant
St Helens

Date Received : 07-Jun-10

Instrument - Description : Heat Inductor
Ident Number : P070610-07
Manufacturer : Miller
Model Number : Proheat 35
Serial Number : IH-MMA120092/MA120092G
Procedure Version : 1

Environmental Conditions

Temperature : 20°C +/- 1°C
Relative Humidity : 50% +/- 0.5%

Mains Voltage : 240V +/- 5V
Mains Frequency : 50Hz +/- 5Hz

Comments

This Instrument Was Calibrated Against Laboratory Standards Whose Values Are Traceable To Recognised National Standards , Or Are Derived By Approved Ratio Techniques. The Uncertainty Limits Quoted Refer To The Measured Values Only , With No Account Being Taken Of The Instruments Ability To Maintain Its Calibration. Traceable Via UKAS Lab No 0324.All Tests Passed

Traceability Information

| <i>Instrument description</i> | <i>Serial number</i> | <i>Certificate number</i> | <i>Cal. date</i> | <i>Cal. period</i> |
|-------------------------------|----------------------|---------------------------|------------------|--------------------|
| 5075 Precision Multimeter | 1011 22 | 15052 | 21/11/08 | 104 |
| 9822 Multifunction Calibrator | 1336CO / TE22 | 15057 | 24/11/08 | 104 |

Calibrated By : D.Smith

Date of Calibration : 07-Jun-10

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 B.S.5781, part 1 1992. (ISO 10012 - 1 1992).

CERTIFICATE OF CALIBRATION

Serial Number
070610-07

Page 2 of 3 pages

| Test Title | Tolerance | Applied Value | Reading | % Of Spec | Uncertainties |
|-----------------------------|-----------|---------------|---------|-----------|---------------|
| TC1 Input Indication | | | | | |
| 382°F | 3°f | 382°f | 380°f | 67% | 600m°F |
| 882°F | 3°f | 882°f | 880°f | 67% | 600m°f |
| 1382°F | 3°f | 1 382°f | 1 380°f | 67% | 600m°f |
| TC2 Input Indication | | | | | |
| 382°F | 3°f | 382°f | 380°f | 67% | 600m°f |
| 882°F | 3°f | 882°f | 880°f | 67% | 600m°F |
| 1382°F | 3°f | 1 382°f | 1 380°f | 67% | 600m°F |
| TC3 Input Indication | | | | | |
| 382°F | 3°f | 382°f | 380°f | 67% | 600m°F |
| 882°F | 3°f | 882°f | 880°f | 67% | 600m°f |
| 1382°F | 3°f | 1 382°f | 1 380°f | 67% | 600m°f |
| TC4 Input Indication | | | | | |
| 382°F | 3°f | 382°f | 380°f | 67% | 600m°f |
| 882°F | 3°f | 882°f | 880°f | 67% | 600m°f |
| 1382°F | 3°f | 1 382°f | 1 380°f | 67% | 600m°F |
| TC5 Input Indication | | | | | |
| 382°F | 3°f | 382°f | 380°f | 67% | 600m°f |
| 882°F | 3°f | 882°f | 880°f | 67% | 600m°F |
| 1382°F | 3°f | 1 382°f | 1 380°f | 67% | 600m°F |
| TC6 Input Indication | | | | | |
| 382°F | 3°f | 382°f | 380°f | 67% | 600m°f |
| 882°F | 3°f | 882°f | 880°f | 67% | 600m°f |
| 1382°F | 3°f | 1 382°f | 1 380°f | 67% | 600m°F |

CERTIFICATE OF CALIBRATION

Serial Number
070610-07

Page 3 of 3 pages

| Test Title | Tolerance | Applied Value | Reading | % Of Spec | Uncertainties |
|---------------------------|-----------|---------------|---------|-----------|---------------|
| TC1 Output Voltage | | | | | |
| 382°F | 38mV | 2.787V | 2.785V | 6% | 7.6mV |
| 882°F | 38mV | 6.013V | 6.011V | 6% | 7.6mV |
| 1382°F | 38mV | 9.239V | 9.237V | 6% | 7.6mV |
| TC2 Output Voltage | | | | | |
| 382°F | 38mV | 2.787V | 2.785V | 6% | 7.6mV |
| 882°F | 38mV | 6.013V | 6.011V | 6% | 7.6mV |
| 1382°F | 38mV | 9.239V | 9.237V | 6% | 7.6mV |
| TC3 Output Voltage | | | | | |
| 382°F | 38mV | 2.787V | 2.785V | 6% | 7.6mV |
| 882°F | 38mV | 6.013V | 6.011V | 6% | 7.6mV |
| 1382°F | 38mV | 9.239V | 9.237V | 6% | 7.6mV |
| TC4 Output Voltage | | | | | |
| 382°F | 38mV | 2.787V | 2.785V | 6% | 7.6mV |
| 882°F | 38mV | 6.013V | 6.011V | 6% | 7.6mV |
| 1382°F | 38mV | 9.239V | 9.237V | 6% | 7.6mV |
| TC5 Output Voltage | | | | | |
| 382°F | 38mV | 2.787V | 2.785V | 6% | 7.6mV |
| 882°F | 38mV | 6.013V | 6.011V | 6% | 7.6mV |
| 1382°F | 38mV | 9.239V | 9.237V | 6% | 7.6mV |
| TC6 Output Voltage | | | | | |
| 382°F | 38mV | 2.787V | 2.785V | 6% | 7.6mV |
| 882°F | 38mV | 6.013V | 6.011V | 6% | 7.6mV |
| 1382°F | 38mV | 9.239V | 9.237V | 6% | 7.6mV |