

PAD



RS Calibration

Calibration and Repair Service

Serial No: 2435125

Cert No: 1978771

Cal Date: 03 Jun 2026

Recal Due:

0310

DPN 175 Lammas Road, Corby, Northants, NN17 9RS

****Calibration Certificate****

Do Not Destroy

Calibration Certificate Attached: 1978771

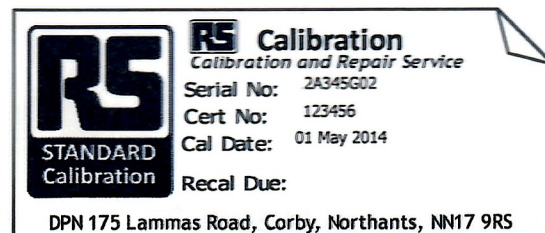
OD ref: 1266890699

Time 1048 Volt-Current Loop Calibrator

first

IMPORTANT INFORMATION

Simply detach the label in the top right hand corner of the new front sheet and apply to your instrument as required.



For Re-Calibration of your unit please email:

calibration.uk@rs-components.com

or call us on 01536 405545 to arrange free collection. Please quote serial number when returning.

RS Calibration

CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 03 Jun 2026

Certificate No. 1978771



0310

RS Calibration

Calibration and Repair Service

DPN 175, Lammas Rd,
Weldon Industrial Est
Corby, Northants, NN17 9RS

Tel: 01536 405545
Fax: 01536 401590

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A handwritten signature in black ink, appearing to read 'C. Sheridan'.

Craig Sheridan

Client	VIAMED LTD KEIGHLEY WEST YORKSHIRE BD20 7DT
Instrument	Time 1048 Volt-Current Loop Calibrator
Serial No.	2435125
Client Reference	N/A
Procedure ID.	423_1630 Rev P3
Date of Calibration	03 Jun 2026

Remarks

This calibration is of a new instrument.

Uncertainties

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor $k = 2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

For certificate statements of conformity see Appendix SCQAR 533
The following calibration results relate only to the items defined above.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes

This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

CERTIFICATE OF CALIBRATION

UKAS Accredited Calibration Laboratory No. 0310

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Environment

The ambient temperature and relative humidity throughout the calibration were $(20 \pm 2) ^\circ\text{C}$ and $(40 \pm 35) \% \text{rh}$ respectively.

Method

Prior to the calibration the instrument was held within the laboratory for a period of not less than 30 minutes.

The instrument was calibrated by applying nominal values to the input terminals and recording the displayed values in the tables below.

MEASURE MODE

Function & Range	Applied Value	UUT Display	Measurement Uncertainties
DC Voltage			
22 V	1 V	1.000 V	# $\pm (1.26\text{mV})$
22 V	5 V	5.000 V	$\pm (1.26\text{mV})$
22 V	10 V	10.001 V	$\pm (1.27\text{mV})$
22 V	15 V	15.002 V	$\pm (1.29\text{mV})$
22 V	19 V	19.003 V	$\pm (1.3\text{mV})$
2.2 V	1.9 V	1.9003 V	$\pm (0.13\text{mV})$
220 mV	190 mV	190.00 mV	$\pm (13.1\mu\text{V})$
DC Current			
22 mA	1 mA	0.999 mA	# $\pm (1.27\mu\text{A})$
22 mA	10 mA	10.000 mA	$\pm (2.22\mu\text{A})$
22 mA	19 mA	18.999 mA	$\pm (3.71\mu\text{A})$
2.2 mA	1.9 mA	1.9000 mA	$\pm (0.371\mu\text{A})$
220 uA	190 uA	190.00 uA	$\pm (82\text{nA})$

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SOURCE MODE

Function & Range	UUT Display	Measured Value	Measurement Uncertainties
DC Voltage			
22 V	1 V	1.001 V	# ± (25.4mV)
22 V	5 V	4.999 V	± (5.11mV)
22 V	10 V	9.998 V	± (2.57mV)
22 V	15 V	14.998 V	± (1.75mV)
22 V	19 V	18.997 V	± (1.39mV)
2.2 V	1.9 V	1.8998 V	± (0.141mV)
220 mV	190 mV	190.02 mV	± (14.4uV)
DC Current			
22 mA	1 mA	1.001 mA	# ± (25.5uA)
22 mA	10 mA	10.001 mA	± (2.96uA)
22 mA	19 mA	19.002 mA	± (3.54uA)
2.2 mA	1.9 mA	1.8998 mA	± (0.202uA)
220 uA	190 uA	189.97 uA	± (21.6nA)

CERTIFICATE OF CALIBRATION

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 **Calibration**
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CALIBRATED BY :- PAD

Compliance to Specification

The specification published by the manufacturer and found in the instrument's handbook has been used to determine performance at the measured points.

Reported values not annotated.

The instrument passed the stated specification, due allowance having been made for the uncertainty of measurement which carries no implication regarding the long term stability of the instrument.

Reported values annotated with a #

The measured result is a conditional pass to the specification limit by a margin less than the measurement uncertainty; it is therefore not possible to state compliance based on the stated level of confidence.

END OF CALIBRATION

Appendix SCQAR533 Certificate Statements of conformity

RS Components is standardising how it reports conformity across all disciplines in line with requirements within **ISO/IEC: 17025:2017**.

Where the laboratory reports a statement of conformity to a specification, guidance has been drawn on reporting structure and decision rules from ILAC document series **ILAC-G8:09/2019**.

Unless otherwise instructed by you the Customer, acceptance limits applied are derived from the manufacturers specification or applicable standard (e.g. DIN, EEC, BS etc.) or where applicable: SCQAR532_RS Standard Limits for Calipers, available on request.

The statements found on this certificate produced by RS Components Laboratory are as follow:

1) Reported values with **No Annotation**:

The instrument **passed** the stated specification, even with allowance having been made for the uncertainty of measurement, which carries no implication regarding the long-term stability of the instrument.

2) Reported values annotated with **"#"**

The measured result is a **conditional pass** to the limit but by a margin less than the measurement uncertainty, it is therefore not possible to state compliance based on the stated level of confidence.

3) Reported values annotated with **"##"**

The measured result is a **conditional fail** to the limit but by a margin less than the measurement uncertainty, it is therefore not possible to state compliance based on the stated level of confidence.

4) Reported values annotated with **"###"**

The measured result **failed** the stated specification, even with allowance having been made for the measurement uncertainty.

