

CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 29 Feb 2016

Certificate No.

1429928



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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Paul Titcomb

Client	ACENTRO LTD HIGH WYCOMBE BUCKINGHAMSHIRE HP15 6EP
Instrument	Quantum / Alba, Digital Stopwatch
Serial No.	122743932
Client Reference	N/A
Procedure ID.	X01.7097 Rev. P1
Date of Calibration	29 Feb 2016
Performance Status	Reported Values

Equipment Used to Carry Out Calibration	Equipment ID.
GPS Frequency Standard	Cal 675

The measurements reported in this certificate were carried out using equipment whose values are traceable to national standards.

All procedures employed and results reported are in compliance with the requirements of the International Standard ISO/IEC 17025:2005.

The management controls of the RS Calibration Laboratory are registered under the British Standard BS EN ISO 9001 : 2008 No. RS 00362.

Uncertainties

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95%.

This certificate reports recorded values for the instrument 'As Received'.



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Environment

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

Method

The instrument was calibrated by comparison with a GPS frequency standard.

Prior to the calibration the instrument was allowed to stabilise in the laboratory for a period of not less than 30 minutes.

Time Interval Accuracy

Indicated Interval		UUT Displayed Value				Equivalent Value
10.00 s	-	00 m	10 s	05	$1/100\text{S}$	10.05 s
30.00 s	-	00 m	30 s	14	$1/100\text{S}$	30.14 s
60.00 s	-	01 m	00 s	05	$1/100\text{S}$	60.05 s
900.00 s	-	15 m	00 s	20	$1/100\text{S}$	900.20 s
1680.00 s		28 m	00 s	11	$1/100\text{S}$	1680.11 s
3300.00 s	00 hr	55 m	00 s	-		3300 s

Measurement uncertainties of the recorded values:

$\pm (0.2s + 1 \text{ L.S.D of the display resolution}).$

END OF CALIBRATION

CALIBRATED BY:- PMT

Reported values

The uncertainties quoted refer to the recorded values, which include any identified contribution of the instrument under test and not to the ability of the instrument to maintain its calibration.