

# CERTIFICATE OF CALIBRATION

Issued by: RS Components Ltd

Date Issued: 04 Mar 2015

Certificate No.

1388193



**RS Calibration**

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Calibration and Repair Service

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MARK CONNELLY

Client	ACENTRO LTD HIGH WYCOMBE BUCKINGHAMSHIRE HP15 6EP
Instrument	Cole-Palmer Digital Stopwatch
Serial No.	122743932
Client Reference	N/A
Procedure ID.	X01.7097 Rev. P1
Date of Calibration	04 Mar 2015
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  $(50 \pm 20) \%RH$  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
Instrument	10.00 s	- 00 m 09 s 97 1/100S	9.97 s
Serial No	30.00 s	- 00 m 30 s 03 1/100S	30.03 s
Client Reference	60.00 s	- 00 m 59 s 97 1/100S	59.97 s
Procedure ID	900.00 s	- 14 m 59 s 95 1/100S	899.95 s
Date of Calibration	1680.00 s	27 m 59 s 95 1/100S	1679.95 s
Performance Status	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:- MSC**

**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 it's calibration.