



CALIBRATION CERTIFICATE

1809-11280

Customer information

Client

: ASCO instrument

Contact

: Dhr M. Paolo DE MACEDO

Address

: 2 place des dix toises

Chateaufort 78117 France

Reference client

Reference Trescal

: 201818929/36

Instrument information

Make / type

: POSITEK / X138.100AL200NPRTZ000

Description

: Displacement transducer

Range

: 0 .. 100 mm

Serial number

: 67056/2018

Identification number

: D21

Accuracy

Date of calibration

: 25 September 2018

Method of calibration

P1-02-G.005 Calibration of linear gauges

The calibration of displacement transducers such as dial gauges, levers, etc. consists of a visual examination of the instrument and series of measurements. Firstly, we examine the state of the transducer, e.g. its running qualities and the readability of its indicator, the functionality of the zero and tolerance boundaries, the solidity of the hands/indices. Secondly, we measure the repeatability, the reversibility and the total deviation.

Environmental conditions (limits during measurements)

Ambient temperature

: 20 °C ± 1 °C

Relative humidity

: 45%rh ± 20%rh

Used reference

The equipment used is traceable to National and/or International standards.

R2868/19

Length measuring machine

Cert.180903723

Note

Tested with Unitronics Unistream read-out/software.

Issue date: 26 September 2018

Technician Koen Groffen

Head of the laboratory Luc Van Pelt

f had for

BELAC is member of the European Co-operation for Accreditation (EA) and is one of the signatories of the EA Multilateral Agreement and to the ILAC (International Laboratory Accreditation Co-operation) Mutual Recognition Arrangements (MRA) for the mutual recognition of calibration certificates.

This document is issued in accordance with the conditions for accreditation of the BELAC which is based on ISO/IEC 17025.

This document may not be reproduced other than in full, except with the prior written approval of the head of the issuing laboratory Unless otherwise stated, the calibration was performed at the address mentioned in the footnote.

Trescal ny | Vosstraat 200 | 2600 Berchem (Antwerpen) | Belgium | T + 32 3 542 62 90 | E info.benelux@trescal.com





CALIBRATION, SOLUTIONS TO, IMPROVE, YOUR, PERFORMANCE



CALIBRATION CERTIFICATE

1809-11280

Visual inspection	OK / NO	Remark
Readability	OK	Digital
Tentacle (shape)	OK	
LED-segments	-	
Spindle movement	OK	
Wear & Tear / corrosion	OK	

	Reference value	Instrument value	Difference	Uncertainty ±	Units
1	0,00	0,00	0,00	0,07	mm
2	9,50	9,60	0,10	0,07	mm
3	18,80	19,00	0,20	0,07	mm
4	37,00	37,40	0,40	0,07	mm
5	45,60	46,10	0,50	0,07	mm
6	50,00	50,60	0,60	0,07	mm
7	54,30	55,00	0,70	0,07	mm
8	63,50	64,20	0,70	0,07	mm
9	81,10	82,10	1,00	0,07	mm
10	90,80	91,70	0,90	0,07	mm
11	100,00	100,90	0,90	0,07	mm
12	90,80	91,70	0,90	0,07	mm
13	81,10	82,00	0,90	0,07	mm
14	63,50	64,20	0,70	0,07	mm
15	54,30	54,90	0,60	0,07	mm
16	50,00	50,60	0,60	0,07	mm
17	45,60	46,20	0,60	0,07	mm
18	37,00	37,40	0,40	0,07	mm
19	18,80	19,00	0,20	0,07	mm
20	9,50	9,60	0,10	0,07	mm
21	0,00	0,00	0,00	0,07	mm

Description	Tolerance	Calculated value	Units	
Repeatability (fw)	-	0,00	mm	-
Reversebility (fu)	-	0,10	mm	14
Error (fe)	_	1,00	mm	-
Total error (fges)	-	1,00	mm	-

The stated uncertainty is that of the entire set-up including the object under test.

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

The uncertainty is calculated following EA-4/02 in accordance with the requirements of the ISO/IEC 17025.