EU-type examination certificate
UK/0126/0235 Revision 3

Issued by:

NMO
Notified Body Number 0126

In accordance with the requirements of the Measuring Instruments Regulations 2016 (S.I. 2016 No. 1153) which implement, in the United Kingdom, Council Directive 2014/32/EU, this EU-type examination certificate has been issued to:

ParcelTools Pty Ltd
PO Box 5178
Greenwich
NSW 2065
Australia

In respect of a material measure of length with a digital display designated the C190PRO and having the following characteristics:

Accuracy class: II
Nominal length and width: 3m x 19 mm

The necessary data (principal characteristics, alterations, securing, functioning etc) for identification purposes and conditions (when applicable) are set out in the descriptive annex to this certificate.

This revision replaces previous versions of the certificate.

Issue date: **27 November 2019**
Valid until: **04 April 2028**

Marek Bokota
Technical Manager
For and on behalf of the Head of Technical Services

UKAS PRODUCT CERTIFICATION
0135

Descriptive Annex

1 INTRODUCTION

The C190PRO is a semi-rigid steel tape measure with digital readout. The instrument is designed to measure dimensions of cuboids and digitally display the result on the integrated screen (Figure 1).

2 DESCRIPTION

The C190PRO is a composite measure with a fixed hook at the zero end and a line at nominal graduation; the zero reference is measured from the inside of the hook, the instrument is only designed to be used under tension. The blade is 3 m long and 19 mm wide. The case comprises a bar-code reader and a display capable of displaying 3 stored measurements (height, length, width). The case is enclosed in a protective rubber sleeve and is fitted with a blade lock. The underside of the blade has black and red numerical graduations on a white background (Figure 2). The topside of the blade has barcodes that can be read by the barcode reader and the result displayed on the integrated display (Figure 3). Both sides are approved under this certificate.

3 TECHNICAL DATA

3.1

	Digital display	Numerical graduations
Accuracy class	II	
Nominal length	3 m	
Minimum length	100 mm	N/A
Scale interval	10 mm	1 mm

The instrument is battery operated and is fitted with a Li-ion 3.7 V rechargeable battery.

3.2 Software

The software complies with WELMEC Guide 7.2 (2015), Risk Class B, Type P, with extensions L and T.

A checksum is calculated for the verified software version and is stored in the non-volatile memory. The checksum is recalculated at boot-up and compared with the stored value; if any changes have been made to the software, these values will not match and the screen will display “Seal Broken”.

3.2.1 Verification information

The legally relevant software information shall be as follows:

Version: 3.01.18
Checksum: 90A6

This information is shown at boot-up (Figure 4).

4 PERIPHERAL DEVICES AND INTERFACES

4.1 Interfaces

The instrument may have the following interface types:

- Mini USB, this interface is positioned so that it can only be used when the instrument is not obtaining a digital readout.
- Bluetooth wireless radio

4.2 Peripheral devices

The instrument may be connected to any peripheral device that has been issued with Parts Certificate by a Notified Body responsible for Module B under Directive 2014/32/EU and bears the CE marking of conformity to the relevant directives; or

A peripheral device without a Parts certificate may be connected under the following conditions:

- it bears the CE marking for conformity to the EMC Directive;
- it is not capable of transmitting any data or instruction into the measuring instrument, other than to release a printout, checking for correct data transmission or validation;
- it prints measurement results and other data as received from the measuring instrument without any modification or further processing; and
- it complies with the applicable requirements of Paragraph 8.1 of Annex I.

5 APPROVAL CONDITIONS

The certificate is issued subject to the following conditions:

5.1 Inscriptions

The instrument shall bear the following inscriptions:

- CE marking
- Supplementary metrology marking
- Manufacturer's name, registered trade name or registered trade mark and postal address
- Identification number of the notified body
- Information in respect of its accuracy

and, when applicable:

- Information in respect of the conditions of use
- Measuring capacity
- Identity marking (a type, batch or serial number or other element allowing their identification)
- Number of the EU-type examination certificate
- Information whether or not additional devices providing metrological results comply with the provisions of Directive 2014/32/EU on legal metrological control

The markings and inscriptions shall fulfil the requirements of Article 8, Article 21, Article 22 and Point 9 of Annex I of Directive 2014/32/EU.

6 LOCATION OF SEALS AND VERIFICATION MARKS

6.1 The rating plate (Figure 5) is located on the side of the instrument case, and is secured, either by sealing or by being of a form such that it is destroyed when removed.

6.2 Access to the electronics is prevented via a tamper evident sticker placed over one of the enclosure securing screws (Figure 6).

6.3 Removal of the tape is prevented via a tamper evident sticker placed over the joint between the tape cassette and the electronics enclosure (Figure 6).

The sealings must bear an official mark, which may be either:

- a mark of the manufacturer and/or manufacturer's representative, or
- an official mark of a verification officer.

7 ALTERNATIVES

7.1 The C190PRO is technically compatible with, and may be connected to, the Avery Weigh Tronix FLI-425 Data Storage Device (DSD). The FLI-425 is capable of long-term storage of measurement data for legally relevant purposes and is fully described in Evaluation Certificate GB-1644.

7.2 The C190PRO is technically compatible with, and may be connected to, the Avery Weigh Tronix ZM301 / ZM303 / ZM305 / ZQ375 Series Data Storage Device (DSD). The ZM301 / ZM303 / ZM305 / ZQ375 Series is capable of long-term storage of measurement data for legally relevant purposes and is fully described in Evaluation Certificate GB-1660.

7.3 The software verification information described in section 3.2.1 may be as follows:

Version: 3.01.20
Checksum: 3696

This information is shown at boot-up (Figure 7).

7.4 The numerical graduation markings described in section 1 may be of an alternative design which includes supplementary imperial graduations (Figure 8). Approval under this certification is limited to the metric graduations only.

7.5 The sealing method described in 6.3 may be replaced by the electronics enclosure (handset) and tape cassette having mutual serial numbers (Figure 9). Multiple tape cassettes may be verified with a single handset before mutual serial numbers are applied so those cassettes may be interchanged.

8 ILLUSTRATIONS

Figure 1 C190PRO
Figure 2 Numerical graduations
Figure 3 Barcode graduations
Figure 4 Software information
Figure 5 Rating plate

CERTIFICATE HISTORY

ISSUE NO.	DATE	DESCRIPTION
UK/0126/0235	5 April 2018	Type-examination certificate first issued.
UK/0126/0235 Revision 1	25 June 2018	Corrected version and checksum in section 3.2.1 and Figure 4. Corrected “Micro USB” to “Mini USB” in section 4.1. Added alternative 7.1.
UK/0126/0235 Revision 2	30 April 2019	Added alternatives 7.2 and 7.3, and Figure 7.
UK/0126/0235 Revision 3	27 November 2019	Added alternatives 7.4 and 7.5, and Figures 8 and 9. Figure 5 updated with manufacturer’s postal address.

Figure 1 C190PRO

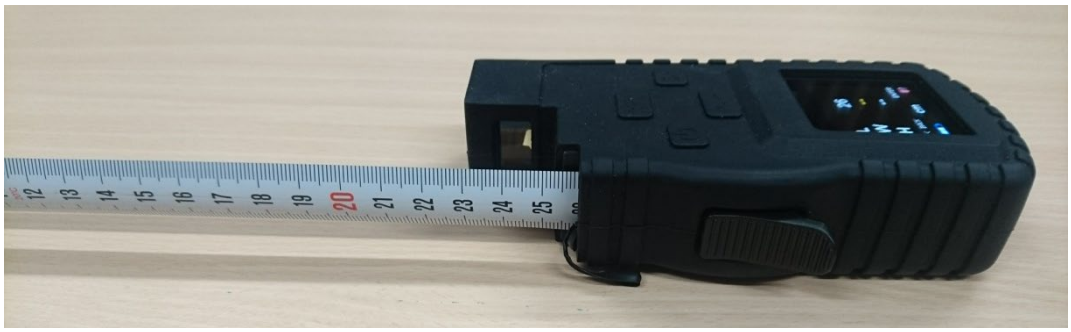

Figure 1 Numerical graduations

Figure 3 Barcode graduations

Figure 4 Software information

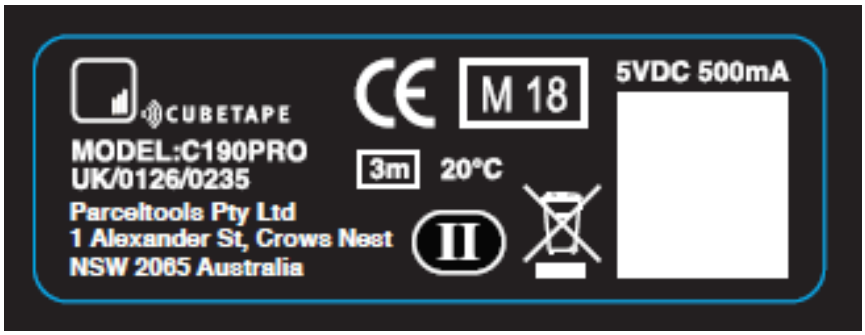

Figure 5 Rating plate

Figure 6 Location of seals

Figure 7 Software information (Alternative 7.3)

Figure 8 Numerical graduations (Alternative 7.4)

Figure 9 Alternative tape cassette sealing method (Alternative 7.5)