



Type examination certificate

Number **T12514-UK** revision 0
Project number 2657487
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Issued by

NMi Certin UK (TIC) Ltd.,
appointed and approved by the Secretary of State to perform tasks with
respect to conformity assessment procedures mentioned in regulation 39
of the Measuring Instruments Regulations 2016 as amended, after having
established that the Measuring instrument meets the applicable
requirements of the Measuring Instruments Regulations 2016 as
amended, to:

Manufacturer

Parceltools Pty. Ltd.
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Australia

Measuring
instrument

Material Measure of length with an ancillary electronic device
Type : C200

Further properties are described in the annexes:

- Description T12514-UK revision 0;
- Documentation folder T12514-UK-1.

Valid until

21 March 2033

Issuing Authority

NMi Certin UK (TIC) Ltd., Approved Body number 8506
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Certification Board

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1 General information about the material measure of length

All properties of the material measure of length, whether mentioned or not, shall not be in conflict with the legislation.

1.1 Essential characteristics

Type of material measure	Semi-rigid steel tape measure in a case
Accuracy class	II
Nominal length	3 m, 5 m or 7,5m
Scale interval	10 mm
Reference temperature	20 °C

1.2 Essential shapes

Number	Pages	Description	Remarks
12514-UK/0-01	1	Hook design and general assembly	-
12514-UK/0-02	1	Markings, graduation and numbering	-

The material measure of length is made of steel.

The material measure of length has a cambered cross-section.

The principal scale-mark at the beginning is a surface.

The principal scale-mark at the end is a line.

The material measure of length has a cm graduation on the front side, along the complete nominal length. The material measure of length has a mm graduation on the reverse side, along the complete nominal length.

The cm scale-marks are continuously numbered along the complete nominal length on the front and the back side.

The inscriptions fulfil the requirements stated in the Measuring Instruments Regulations 2016 as amended, Schedule 1A, regulation 9 and OIML R 35-1 (2007) clause 10.



Description

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The following inscriptions are present at the beginning of the measure on the reverse side:

- UK marking;
- Supplementary metrology marking;
- Identification number of the approved body involved in conformity assessment procedure module D;
- Manufacturer's mark or name;
- Type Examination Certificate number;
- Nominal length;
- Accuracy class.

Other inscriptions are allowed as long as they do not interfere with the inscriptions listed above and the reading of the measure.

1.3 Non-essential parts

The material measure of length may be mounted to non-essential devices, for example but not limited to belt clips, level indicators and automatic winders, provided that they do not lead to an instrument having other essential characteristics than those fixed by this certificate.

2 Information about the ancillary electronic device

The ancillary electronic device consists of:

- A bar code scanner integrated in the winding mechanism of the tape measure;
- A mobile device running the Android operating system and Quanta Mobile.
Quanta Mobile may be branded as Dockmaster.

2.1 Essential parts

Number	Pages	Description	Remarks
12514-UK/0-03	1	Exploded view	-
12514-UK/0-04	1	PCB Components	-

Legally relevant software for the Android device:

- Quanta Mobile.

2.2 Essential characteristics

Electromagnetic environment class		E2
Mechanical environment class		M3
Climatic environment	temperature range	-10 °C / +40 °C
	humidity	non-condensing
	intended location	closed
Power supply voltage		3,7 V DC internal battery 5 V DC by USB for charging the internal battery
Software identification	Barcode scanner	Firmware version: 3.8.99
	Quanta Mobile	Version: 1.2.2.1778

Software of the barcode scanner:

- The identification number will be displayed on Quanta Mobile after the following actions:
 - Go to the main menu in Quanta Mobile;
 - Scanning this bar code:



Module Version

- The firmware version of the bar code scanner will be shown on Quanta Mobile.
- The software of the barcode scanner runs directly on the hardware (no operating system).
- Specification (WELMEC 7.2):
 - Software type P;
 - Risk Class B;
 - Extension T;
- Security and software protection:
 - Upon hardware power-up the software is automatically started;
 - The software is placed on an internal ROM in executable format.

List of legally relevant functions of the barcode scanner:

- Decoding the bar code into a value of length;
- Rounding the scanned values to the scale interval;
- Interface complying with WELMEC 7.2 extension T to send measurement results to an external device;
- Acting upon significant faults.

Software of Quanta Mobile:

- The identification number will be displayed:
 - Select the menu on Quanta Mobile;
 - Choose "About".
- Quanta Mobile runs on the Android operating system.
- Specification (WELMEC 7.2):
 - Software type U;
 - Risk Class C;
 - Extensions L;
- Security and software protection:
 - Quanta Mobile is obfuscated and encrypted;
 - The database is located in the devices internal storage and is hidden from any user interface view;
 - The software is placed on non-removable memory in executable format.

List of legally relevant functions of Quanta Mobile:

- Interface to receive the barcode and measurement results from the bar code scanner;
- Adding the unit of measurement to the measurement result of the dimensions;
- Adding the unit of measurement to the measurement result of the weight value (optional);
- Combining three dimensions, data and time of the measurement, the serial number of the bar code scanner and (optional) a weight value into a measurement record;
- Storage of the measurement record in a database that complies with WELMEC 7.2 extension L;
- Retrieval of the measurement record.

2.3 Conditional parts

Any mobile device can be used that bears the CE marking or UK marking and is capable of running the Android operating system.

The barcode scanner and the mobile device communicate over the following protective interfaces that have not to be secured:

- Bluetooth.

2.4 Non-essential parts

Part(s) not subject to legal control (WELMEC 7.2 clause 2):

- The software may contain files or programs that have non-essential properties, for example (but not limited to) invoice modules, database modules and operating system, provided that they do not lead to an instrument having other characteristic than those fixed by this certificate.

Other non-essential parts:

- Battery.

3 Seals

The ancillary electronic device uses software sealing. No hardware sealing is required.

4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the material measure of length fulfil the requirements of the Measuring Instruments Regulations 2016 as amended.