	MI)	E U - t y j	be examination
			Number T10290 revision 2 Project number 2621235 Page 1 of 1
•	Issued by	NMi Certin B.V., designated and notified by the N conformity modules mentioned in having established that the Meas requirements of Directive 2014/32	etherlands to perform tasks with respect to n article 17 of Directive 2014/32/EU, after uring instrument meets the applicable 2/EU, to:
	Manufacturer	Quantronix Inc. 314 South 200 West P.O. Box 929 Farmington Utah, 84025 United States of America	
	Measuring instrument	Multidimensional measuring i	instrument
		Туре :	CS150-L Cubiscan 150-TLFT
		Further properties are described i – Description T10290 revision 2; – Documentation folder T10290-2	n the annexes: 2.
	Valid until	14 June 2030	
	Remark	This revision replaces the earlier v folder.	versions, except for its documentation
	Issuing Authority	NMi Certin B.V., Notified Body 21 May 2021 Certification Board	v number 0122
	NMi Certin B.V. Thijsseweg 11 2629 JA Delft The Netherlands T +31 88 6362332 certin@nmi.nl www.nmi.nl	This document is issued under the provision that no liability is accepted and that the manufacturer shall indemnify third-party liability. The designation of NMi Certin B.V. as Notified Body can be verified at http://ec.europa.eu/growth/tools- datbacer(nande)	Reproduction of the complete document only is permitted. This document is digitally signed and sealed. The digital signature can be verified in the blue ribbon on top of the electronic version of this certificate.

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Number **T10290** revision 2 Project number 2621235 Page 1 of 4

1 General information about the multidimensional measuring instrument

All properties of the multidimensional measuring instrument, whether mentioned or not, shall not be in conflict with the legislation.

1.1 Essential parts

The electronics; The sensors.

See block diagrams:

Number	Pages Description		Remarks
10290/0-01	1	Interconnection diagram CS150-L	-
10290/1-01	1	Block diagram Cubiscan 150-TLFT	-

EMI protection measures (model CS150-L):

- Ferrite bead around the cable between power supply and motherboard (power supply side);
- Ferrite bead around the cable between junction box and motherboard (junction box side);
- Ferrite bead around the cable to the Ethernet connection (motherboard side);
- Ferrite bead around the cable to the USB connection (motherboard side);
- See also drawing 10290/0-01.

EMI protection measures (model Cubiscan 150-TLFT):

- Ferrite on the cable of the power supply to the indicator.

1.2 Essential characteristics

Principle of ope	eration	Reflection of sound			
Maximum dima		Length	Width	Height	
waximum dime	insion	$Max \le 1200 \text{ mm}$	$Max \le 1000 \text{ mm}$	$Max \le 1000 \text{ mm}$	
Minimum dime	nsion	Min ≥ 80 mm	Min ≥ 60 mm	Min ≥ 60 mm	
Scale interval		$d \ge 5 mm$	$d \ge 5 mm$	$d \ge 5 mm$	
Measuring rang	je	Single interval			
Electromagnetic environment class		E1			
Mechanical environment class		M1			
	temperature range	-10 °C / +40 °C			
Climatic	humidity	non-condensing			
	intended location	open and closed			
Power supply ve	oltage	240 V AC 50 Hz 100 – 240 V AC 50/60 Hz (for Cubscan 150-TLFT)			
Method of operation		semi-automatic			



Number **T10290** revision 2 Project number 2621235 Page 2 of 4

Limitations of use		rectangular, non-sound-absorbing, reflective, transparent and objects with regular surfaces		
Software	Model:	CS150-L	Cubiscan 150-TLFT	
identification	Version:	4.YZZ (Y,Z = 0 9)	5.xxx (x = 0 9)	

Software identification:

- For model CS150-L: the software version number will be displayed during the power-up sequence of the instrument in the Dim-Weight field of the display:
- For model Cubiscan 150-TLFT: Press 'about' and 'version' to display the software identification.

The multi-dimensional measuring instrument has embedded software.

Security:

- Hardware sealing is used to protect memory components from being swapped;
- Hardware sealing is used to protect adjustment settings and audit trail;
- The software and data are protected by means of checksums;
- The software is placed in board resident flash memory

1.3 Essential shapes

Number	Pages	Description	Remarks
10290/0-02	2	CS150-L Main assembly	-

Inscriptions:

- The inscriptions have to fulfil the requirements stated in Directive 2014/32/EU Annex I clause 9 and OIML R 129 (2000) clause 8;
- The inscriptions contain limitations of use as mentioned in the essential characteristics;
- The inscriptions plate is fixed to the electronics of the multidimensional instrument and is secured against removal by sealing or will be destroyed when removed.

1.4 Conditional parts

The multidimensional measuring instrument may be equipped with peripheral equipment if the peripheral equipment is certified to be connected to a multidimensional measuring instrument by a Notified Body responsible for type examination under Directive 2014/31/EU or Directive 2014/32/EU taking into account the applicable electromagnetic environment class.

1.5 Non-essential parts

The multidimensional measuring instrument may be connected to non-essential devices, for example but not limited to bar code readers; second display's, etc. provided that:

- They do not present primary data;
- They do not lead to an instrument having other essential characteristics than those fixed by this certificate.



Number **T10290** revision 2 Project number 2621235 Page 3 of 4

2 Information about the main constituent parts of the multidimensional measuring instrument

2.1 The electronics

2.1.1 Essential parts

Number	Pages	Description	Remarks
10290/0-03	2	PCB component layout for ASY 12329	-
10290/0-04	10290/0-04 1 PCB assembly motherboard CS150-L		-
10290/1-02	2	Main board Cubiscan 150-TLFT	Including parts list

2.1.2 Conditional parts

Power supply:

- For model CS150-L: AC/DC plug-in power supply: XP power, type: AEH45US12.
 For model Cubiscan 150-TLFT:
 - AC/DC plug-in power supply: CINCON ELECTRONICS CO., LTF, type TRH50A120Y.

The multidimensional measuring instrument may be equipped with one or more of the following protective interfaces that have not to be secured:

- RS232;
- USB;
- Ethernet.

2.1.3 Non-essential parts

Display; Keyboard.

2.2 The sensors

2.2.1 Essential parts

Number	Pages	Description	Remarks
10290/0-05	2	PCB component layout for ASY 12834	-

2.2.2 Essential shapes

Number	Pages	Description	Remarks
10290/0-06	1	Sensor ASY	-



Number **T10290** revision 2 Project number 2621235 Page 4 of 4

2.3 The software

2.3.1 Essential parts

Legally relevant parts named:

- Cs150_eu_v4_115.flash (for model CS150-L)
- 5_xxxbxx.bin (for model Cubiscan 150-TLFT; x=0...9).

2.3.2 Essential characteristics

Software specification (WELMEC 7.2):

- Software type P;
- Risk class: B;
- Extension: L (for model CS150-L)
- Extension: T/L/S (for model Cubiscan 150-TLFT).

Operating system:

- The software runs directly on the hardware (no operating system).

Legally relevant functions of the software:

- Calculation of the dimensions from raw measurement data;
- Static adjustment;
- Calculation of dimensional weight;
- Acting upon significant faults;
- Checking the (remote) display (only for model CS150-L).

The following processes take place using the software:

- Determination of height by means of input from the ultrasonic sensor mounted on the arm;
- Determination of length and width by means of input from the other three ultrasonic sensors.

3 Seals

To secure components that may not be dismantled or adjusted by the user, the multidimensional measuring instrument has to be secured in a suitable manner on the locations indicated in the drawings:

Number	mber Pages Description		Remarks
10290/0-07	7	CS150-L sealing instructions	-
10290/1-03	2	Cubiscan 150-TLFT sealing	-

4 Conditions for conformity assessment

The marks, facilities for the marks and the inscriptions on the multidimensional measuring instrument fulfil the requirements of Directive 2014/32/EU.

The multidimensional measuring instrument may be connected to a non-automatic weighing instrument provided that this instrument meets the applicable requirements of Directive 2014/31/EU for non-automatic weighing instruments.