National Measurement Office Certification

Member State of OIML
United Kingdom of Great Britain
and Northern Ireland

OIML Certificate No
R76/2006-GB1-09.02
Revision 2

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

Person responsible: **Paul Dixon – Director, Product Certification**

Applicant: **Digi Europe Ltd**
Digi House
Rookwood Way
Haverhill
Suffolk, CB9 8DG
United Kingdom

Manufacturer: **The applicant**

Identification of the certified pattern: **WPI-700**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

OIML R 76 - Edition 2006(E) for **accuracy class**: [III] and [IIII]

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

This revision replaces earlier versions of the certificate.

Issue Date: **16 February 2015**
Reference No: **T1127/0035**

Signatory: **G Stones**
for **Chief Executive**

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UKAS PRODUCT CERTIFICATION 0135

National Measurement Office

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The conformity was established by the tests and examination as described in the associated Evaluation Report P01156 Revision 1 which includes 25 pages.

Characteristics of the instrument:

This indicating device is designated the WPI-700. It is designed to be used as part of a Class III or IIII non-automatic weighing instrument, designated the WPI-701 (single scale) and WPI-702 (dual scale). The indicator operates as single or dual interval, is self-indicating and mains-powered, and may include a labeller.

Main features:

- Processor and converter unit comprising a Teraoka TPB-2930 CPU and a Teraoka TPB-03324 6 wire A/D converter
- Touch screen (colour TFT-LCD module)
- Waterproof metallic enclosure

Technical data:

Power supply	100VAC-230VAC, 50 / 60 Hz
Maximum number of scale intervals	6,000 (single interval) 3,000 per partial weighing range (multi-interval, with a maximum of two weighing ranges) 1,000 (Class IIII, single or multi-interval)
Dual interval range	$Max_1 \leq 50\%\ Max_2$
Maximum Tare	-50% Max
Maximum Preset Tare	$- Max_1$
Load cell excitation voltage	10 Vdc
Minimum load cell impedance	87 Ω
Maximum load cell impedance	440 Ω
Minimum input voltage per verification scale interval	0.67 μV
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	40 mV
Fraction of maximum permissible error	Pind = 0.5
Operating temperature range	-10 °C to + 30 °C
Load cell cable (junction box to indicator)	750 m/mm_2

Devices:

- Initial zero setting
- Semi-automatic zero setting
- Zero tracking
- Semi-automatic subtractive tare weighing
- Determination of stability of equilibrium
- Indication of stability of equilibrium
- Zero indicator
- PLUs
- Preset tare
- Price calculation
- Dual scale operation (WPI-702)

Interfaces:

- Load cell 6-wire connection
- Ethernet
- USB

Software:

The software version number is 2.xx.xx.xxxx (with x reflecting non-legally relevant changes) which is displayed during the power-up sequence of the instrument. The legal metrological code is contained within a dll file, DPS700.dll. The dll file is protected by a checksum which is also displayed during the power-up sequence. Any modification in the dll file will result in a change in the checksum value and an error being detected. Access to the Windows operating system is prevented by password protection.

Calibration and configuration modes are password protected, and can only be made operative (even if the password is entered) by operating the A/D switch located within the enclosure.

Alternatively, the instrument may use the World View software.
The legally relevant software is contained within two dll files, identified as follows in the “About” screen:

HeaderDisplay.dll	Version 1.0.0.10
DPS710.dll	Version 1.0.0.29

The instrument may be used for direct sales to the public when using the World View software.

Alternative construction (modified A/D board, main board and power supply):

Main features:

- A/D board drawing No TPB-03484-00-00 Rev 0 (A/D converter TPB-03484)
- Commel main board type LV-67H
- CIT-400W-Micro-ATX-Silent-PSU power supply

Technical data:

Power supply	100VAC-240VAC, 50 / 60 Hz
Maximum number of scale intervals	6000 (single interval) 3000 per partial weighing range (multi-interval), with a maximum of two partial weighing ranges
Mutli-interval range	Max1 ≤ 50% Max2
Maximum Tare	-50% Max
Maximum Preset Tare	- Max1
Load cell excitation voltage	3.3 Vdc
Minimum load cell impedance	43 Ω
Maximum load cell impedance	1100 Ω
Minimum input voltage per verification scale interval	0.67 μV
Measuring range minimum voltage	0 mV
Measuring range maximum voltage	40 mV
Fraction of maximum permissible error	Pind = 0.5
Operating temperature range	-10 °C to + 40 °C
Load cell connection	6-wire shielded
Load cell cable (junction box to indicator)	1.5 m

Interfaces:

- Load cell 6-wire connection
- Ethernet
- USB

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R76/2006-GB1-09.02	19 October 2009	Certificate first issued
R76/2006-GB1-09.02 rev 1	27 September 2013	Alternative construction added.
R76/2006-GB1-09.02 rev 2	16 February 2015	Software section added.