

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

OIML Certificate No
R76/2006-GB1-14.01
Revision 1

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: **DPS-800s**

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.

Important note: Apart from the mention of the certificates reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.

Issue Date: 16 February 2015
Reference No: TS1201/0088



**Signatory: G Stones
for Chief Executive**

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NMO is an Executive Agency of the Department for Business Innovation & Skills



This revision replaces previous versions of the certificate.
The conformity was established by tests described in the associated pattern evaluation report P01246 Revision 1 which includes 25 pages.

Characteristics of the instrument:

Characteristics:

This instrument utilises the digital indicating device designated the DPS-800s indicator with optional labeller connected to a weighing platform to form a Class III or IIII, mains-powered self-indicating, non-automatic weighing instrument (Figure 1).

The instrument may be used for direct sales to the public.

Main features:

- Teraoka TPB-03324-00-00 rev 0 A/D converter
- Apex Technology combined PC and LCD display type AHM-6127A
- TDK Lambda power supply unit type LS75 and UPS backup type Pico UPS-120
- Labeller type Digi DPS 800 thermal printer (optional)
- Stainless steel enclosure with metallic supporting frame

Devices:

- Initial zero setting ($\leq 20\%$ Max)
- Semi-automatic zero setting ($\leq 4\%$ Max)
- Zero tracking ($\leq 4\%$ Max)
- Semi-automatic subtractive tare weighing (T = - 50% Max)
- Determination of stability of equilibrium
- Indication of stability of equilibrium
- Zero indicator
- PLUs
- Preset tare
- Price calculation

Technical data:

| | |
|---|---|
| Power supply | 100 - 240 VAC, 50 / 60 Hz |
| Maximum number of scale intervals | 6,000 (Class III, single or multi-interval) 1,000 (Class IIII, single or multi-interval) |
| Load cell excitation voltage | 10 Vdc |
| Minimum load cell impedance | 85 Ω |
| Maximum load cell impedance | 1100 Ω |
| Minimum input voltage per verification scale interval | 1 μ V |
| Measuring range minimum voltage | 0 mV |
| Measuring range maximum voltage | 40 mV |
| Fraction of maximum permissible error | $p_i = 0.5$ |
| Operating temperature range | -10 °C to + 40 °C |
| Load cell cable (from indicator to load cell junction box) - Maximum length | Maximum length = 137 m/mm ² |

Load cell:

Any compatible load cell(s) may be used providing the following conditions are met:

- There is a respective OIML Certificate of Conformity (R60) issued for the load cell.
- The certificate contains the load cell types and the necessary load cell data required for the manufacturer's declaration of compatibility of modules, and any particular installation requirements. A load cell marked NH is allowed only if humidity testing to R76 has been conducted on this load cell.
- The compatibility of the load cells and indicator is established by the manufacturer by means of the compatibility of modules calculation at the time of verification.
- The load cell transmission conforms to a standard type.

Interfaces:

- Load cell 6-wire shielded connection
- Ethernet
- USB
- RS232

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 |

Sealing:

The A/D switch and load cell connection are sealed via tamper-evident labels bearing the manufacturer's mark.

Certificate History

| ISSUE NO. | DATE | DESCRIPTION |
|--------------------------|------------------|----------------------------|
| R76/2006-GB1-14.01 | 05 February 2014 | Certificate first issued |
| R76/2006-GB1-14.01 rev 1 | 16 February 2015 | World View software added. |