



OIML BASIC CERTIFICATE OF CONFORMITY

OIML Member State
SWEDEN

OIML Certificate N°
R76/2006-SE1-17.01



Applicant

Name: Vishay Nobel AB
Address: Box 423, SE-691 27 Karlskoga, SWEDEN

Issuing authority

Name: SP Technical Research Institute of Sweden
Address: Box 857, SE-501 15 Borås, Sweden
Person responsible: Lennart Aronsson

Manufacturer of the certified type is the applicant.

Identification of the certified type

Module indicator intended to be integrated in a self-indicating, electronic, non-automatic weighing instrument.

The certified type G5-PM-S-DC-S
Accuracy class III
Number of verification scale intervals $n \leq 10\,000$

(Identification continued on next page.)

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

R76, edition 2006.

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(s).

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

The conformity was established by tests described in the associated evaluation report 7P02262-01 dated 2017-03-23. This is the first issue of this certificate.

SP Technical Research Institute of Sweden Certification

Lennart Aronsson

Bengt Gutfelt



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SP ref SC0551-17



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Identification of the certified pattern

General description

Suitable for a non-automatic self-indicating weighing instrument with the following characteristics:
Class [III], [single-interval industrial use]

Essential characteristics

- semi-automatic zero-setting
- zero indication
- zero-tracking
- semi-automatic tare balancing
- preset tare
- printing
- data storage device
- additional functions, which facilitate trade and management.

Technical data

Power supply	24 V DC
Minimum verification scale interval:	0,4 μ V
EMC class	E2
Temperature range	-10 °C to +40 °C
Apportionment factor (p_{ic})	0,5

Load cell connection

Load cell excitation voltage	8 - 10 V DC
Minimum load cell impedance	43 Ω
Maximum load cell impedance	2000 Ω
Load cell connection	6 wire sense system, maximum load cell cable length/area 5000 m/mm ² copper wire with grounded screen

Interfaces of the module indicator

- RS-485, serial communication 2 or 4 wire
- Digital output, 24V digital information output
- Digital input, 24 V digital information input
- Analog out, voltage +/-10V or current +/-20mA output (not for legal purpose)
- Ethernet, standard IP protocol and Modbus TCP/IP
- USB, backup/restore of set up parameters
- MicroSD card, software update
- Optional, ProfibusDP, DeviceNet or ControlNet

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Software identification

Push the key INFO, navigate to /Main Menu/System Information. The legally relevant software is in the format x.y.z where the first number shall be 2.y.z

Software/hardware securing

If G5 indicator is not mounted in a panel, the sealing against intrusion of the hardware can be done by putting a seal over a screw at the back of the front.

If G5 indicator is mounted in a panel, the sealing against intrusion of the hardware can be done by putting a seal between indicator enclosure and panel.

A label with Audit Trail number shall be applied on the back of the indicator. At verification the software revision shall be checked and a sealing shall be applied over the microSD-card opening.

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