



OIML Member State
Sweden

OIML Certificate No.
R76/2006-A-SE1-21.02

OIML CERTIFICATE ISSUED UNDER SCHEME A

OIML Issuing Authority

Name: RISE Research Institutes of Sweden AB
Address: Box 857, SE-50115 Borås, Sweden
Person responsible: Martin Tillander

Applicant

Name: Vishay Nobel AB
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Visiting address: Skrantahöjdsvägen 40, SE-691 46 Karlskoga, Sweden

Manufacturer

Name: Vishay Nobel AB
Postal address: Box 423, SE-691 27 Karlskoga, Sweden
Visiting address: Skrantahöjdsvägen 40, SE-691 46 Karlskoga, Sweden

Identification of the certified type (*the detailed characteristics will be defined in the additional pages*)

G5-PM-S-DC-S,

Designation of the module (*if applicable*)

This OIML Certificate attests the conformity of the above identified type (represented by the sample(s) identified in the OIML type evaluation report) with the requirements of the following Recommendation of the International Organization of Legal Metrology (OIML):

OIML R 76

Edition (year):2006

For accuracy class (if applicable): III, IIII

OIML Certificate No.

R76/2006-A-SE1-21.01R76/2006-A-SE1-21.02

This OIML Certificate relates only to metrological and technical characteristics of the type of measuring instrument covered by the relevant OIML Recommendation identified above.

This OIML Certificate does not bestow any form of legal international approval.

The conformity was established by the results of tests and examinations provided in the associated OIML type evaluation report:

No. 7P02262-01 dated 2017-03-23 that includes 2 pages

The technical documentation relating to the identified type is contained in documentation file:

No. 6P07436-01-1 dated 2016-12-21 that includes 48 pages

OIML Certificate History

The product G5-PM-S-DC-S was earlier certified by SP/RISE according to OIML R76:2006, number R76/2006-SE1-17.01

Revision No.	Date	Description of the modification
First issue (CS)	2021-07-06	

Identification, signature and stamp

The OIML Issuing Authority

RISE Research Institutes of Sweden AB

Martin Tillander

Date: 2021-07-06

Important note: Apart from the mention of the Certificate's reference number and the name of the OIML Member State in which the Certificate is issued, partial quotation of the Certificate and of the associated OIML type evaluation report(s) is not permitted, although either may be reproduced in full.

Identification of the certified type (continued)

Metro logical characteristics of the pattern:

Reference to R76/2006, annex F.1 to F.4

Accuracy class		III, IIII
Load cell supply voltage	U_{exc}	10 V
Range of load cell signal (measuring voltage incl dead load)	U_{min}, U_{max}	-20 mV -- +20 mV
Smallest permissible input signal per verification scale interval	$\Delta u_{min}/e$	0.4 μ V
Maximum number of verification scale intervals	N_{ind}	10 000, 1 000
Range of load cell impedance		43 -2 000 Ω
Fraction of mpe	P_I	0.5
Temperature range		-10° C to +40° C
Load cell connection	6 wire sense system, maximum load cell cable length 5 000 m/mm ² copper wire with grounded screen	
Maximum cable length	L/A	5 000 m/mm ² copper wire
Power supply voltage		24 V DC

The indicator may be equipped with the following protective interfaces:

- 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

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, then 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, then 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.