

		
OIML Member State Denmark		OIML Certificate No. R76/2006-A-DK2-25.07
OIML CERTIFICATE ISSUED UNDER SCHEME A		
OIML Issuing Authority Name: FORCE Certification A/S Address: Park Allé 345, 2605 Brøndby, Denmark Person responsible: Per Rafn Crety		
Applicant Name: Laumas Elettronica S.r.l, Address: Via Primo Maggio, 6 43022 Montechiarugolo (PR) Italy		
Manufacturer Laumas Elettronica S.r.l,		
Identification of the certified type <i>(the detailed characteristics will be defined in the additional pages)</i> TLM8 <i>(The name of the instrument may have the designation "JOLLY" put in front and may be followed by alphanumeric characters for technical, legally or commercial characterization of the instrument)</i>		
Designation of the module <i>(if applicable)</i> Non-automatic weighing instrument		
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 76-1, Edition (year): 2006 For accuracy class (if applicable): III and IIII		

**OIML Certificate No.
R76/2006-A-DK2-25.07**

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 reports:

Type examination report: DANAK-1915050, dated 31 March 2015, that includes 77 pages

Type evaluation report: No. 125-23133.10.10, dated 14 May 2025, that includes 24 pages

The technical documentation relating to the identified type is contained in documentation file:
T207885

OIML Certificate History

Revision No.	Date	Description of the modification
Initial version	22 May 2025	

Identification, signature and stamp

The OIML Issuing Authority

FORCE Certification A/S

Date: 22 May 2025

Jens Hovgård Jensen

Certification Manager

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.

Descriptive annex

Characteristics

Accuracy class:	III or IIII
Weighing range:	Single-interval, multi-interval or multi-range (2 or 3)
Maximum number of verification scale intervals (n):	3 × 10000 for Class III without inclinometer 2 × 5200 / 3 × 2000 for Class III with inclinometer 3 × 1000 for Class IIII
Minimum input voltage per VSI:	0.2 µV without inclinometer 0.5 µV with inclinometer
Maximum capacity of interval or range (Max _i):	n _i × e _i
Verification scale interval, e _i = :	Max _i / n _i
Initial zero-setting range:	± 10 % of Max
Maximum tare effect:	100 % of Max
Fractional factor (pi):	0.5
Excitation voltage:	5 VDC
Number of load cell input channels:	8
Minimum input impedance per channel:	175 ohm, when all channels are in use
Minimum input impedance of all connected: load cells collectively for all channels:	21.9 ohm
Maximum input impedance per channel:	1100 ohm
Connecting cable to load cell(s):	6-wire
Supply voltage:	12 - 24 VDC (not to be supplied from DC Mains)
Operating temperature range:	-10 °C / +40 °C
Maximum cable length between TLM8 and junction box for load cells:	1926 m/mm ²

Devices

- Self-test function
- Initial zero-setting – within 20 % of Max
- Semi-automatic zero-setting – within 4 % of Max
- Zero-tracking – within 4 % of Max
- Semi-automatic tare – up to 100 % of Max
- Preset tare – up to 100 % of Max
- Printing device
- Extended resolution
- Gravity compensation
- Data storage device - Alibi memory (optional)
- Tilt compensation (optional)

Software

The software version is displayed during the start-up of the indicator.

The version format is rx.yy.zz, where x is the legal version no., while yy and zz are major and minor version numbers for changes and corrections not influencing the legal function of the software.

The tested software version is r1.00.01

Event counter

The TLM8 weight indicator/transmitter has a non-resettable Event counter, which increments each time the configuration is changed, or a calibration is performed.

Tilt compensation

The indicator can compensate for a tilt of the load receptor, if this is equipped with a tilt sensor, which communicate with the indicator using the serial interface.

The following tilt sensors may be used:

- DPG-Series inclinometer from MEAS Deutschland GmbH / TE Connectivity
- DPL/DPN-Series inclinometer from MEAS Deutschland GmbH / TE Connectivity
- NS-15/PL2-S Dual Axis inclinometer from HL-Planartechnik GmbH / TE Connectivity
- ACx-xxx-2-SCxx-xxx-xx inclinometer from Posital
- ACx-xxx-2-SVxx-xxx-xx inclinometer from Posital
- TILTIX Series inclinometer from Posital
- SOLAR-2 Series Dual Axis inclinometer from Level Developments Ltd.
- BWM826 Series Dual Axis inclinometer from Bewis Sensing Technology LLC.
- BWM827 Series Dual Axis inclinometer from Bewis Sensing Technology LLC

Interfaces

The indicator may be equipped with one or more of the following protective interfaces,

RS485

Digital input

Digital output

Analogue output

CanOpen (optional)

CC-Link (optional)

DeviceNet (optional)

EtherCat (optional)

Ethernet TCP/IP (optional)

Ethernet/IP (optional)

Modbus/TCP (optional)

PowerLink (optional)

Profibus (optional)

ProfiNet-IO (optional)

Sercos III (optional)

