

Evaluation Certificate

Number **TC10862** revision 0 Project number SO16202870 Page 1 of 1

Issued by	NMi Certin B.V.	
In accordance with	WELMEC 8.8 Issue 2, WELMEC 2.1 Issue 4, EN 45501:2015, OIML R 76-1 (2006), WELMEC 7.2, 2015, OIML R51-1 (2006), OIML R61-1 (2004)	
Producer	Hottinger Baldwin Messtechnik GmbH Im Tiefen See 45 D - 64293 Darmstadt GERMANY	
Measuring instrument	An Indicator , tested as a part of a weighing instrument.	
	Prand Hottinger Paldwin Merstechnik CmbH	
	Type : WTX120	
	Further properties are described in the annexes: + + + + + + + + + + + + + + + + + + +	
	 Description TC10862 revision 0; Documentation folder TC10862-1. 	
	An overview of performed tests is given in the appex:	
	- Description TC10862 revision 0.	
Issuing Authority	NMi Certin B.V.	
	5 December 2016	
	* * * * * * * * * * * * * * * * * * * *	
	+ + / / + + + + + + + + + + + + + + + +	
* * * * * * * *	C Posterman	
+ + + + + + + + + + + + + + + + + + + +	Head Certification Board	
NMi Certin B.V.	This document is issued under the provision that Reproduction of the complete	
Hugo de Grootplein 1 3314 EG Dordrecht	no liability is accepted and that the producer shall document only is permitted indemnify third-party liability.	
The Netherlands T +31 78 6332332	* * * * * * * * * * * * * * * * * * * *	
certin@nmi.nl www.nmi.nl	+ + + + + + + + + + + + + + + + + + +	



Number **TC10862** revision 0 Project number SO16202870 Page 1 of 5

1 General information about the indicator

All properties of the indicator, whether mentioned or not, shall not be in conflict with the standard mentioned in the certificate.

This certificate is the positive result of the applied voluntary, modular approach, for a component of a measuring instrument, as described in WELMEC 8.8. The complete measuring system must be covered by an EC type-approval certificate, an EC-type examination certificate or an EU-type examination certificate.

Number Pages De		Description	Remarks
10862/0-01	0862/0-01 1 Block diagram		-
10862/0-02	10862/0-02 3 DPG-Series datasheet		Tilt sensor datasheet
10862/0-03	3	Lay-out of CPU board	Including partslist
10862/0-04	4	Lay-out of ADM (A/D) board	Including partslist

1.1 Essential parts

EMI protection measures:

- The indicator is built in a metal enclosure;
- The interface and power cables are shielded;
- The interface and power cables are grounded near the instrument.

1.2 Essential characteristics

Accuracy class	OIML R 76		
	OIML R 51	XIII , Y(a), XIIII, Y(b)	
	OIML R 61	Ref(0,2)	
Weighing range(s)		Single interval Multi-interval Multiple range	
Maximum number of ver	ification scale intervals	10000	
Maximum number of par	tial weighing ranges	3	
Load cell excitation volta	ge	5 V square wave	
Minimum input voltage per verification scale interval		0,33 μV	
Minimum load cell resistance		43 Ω	
Maximum load cell resista	ance	3321 Ω	



Number **TC10862** revision 0 Project number SO16202870 Page 2 of 5

Fraction of the maximum permissible error	0,5		
Load cell connection	6-wire (remote sensing) or 4-wire		
Maximum value of the cable length per cross wire section between the indicator and the junction box or load cells		519 m/mm ²	
		load cells connected directly	
Tare		T ≤ -Max	

		temperature range	-10 °C / +40 °C		
Climatic		humidity	Non-condensing		
		intended location	Closed		
Mechanical environment class			M3		
Electromagnetic environment class			E3		
Power supply voltage			1230 V DC, or 24 V DC road vehicle battery		
	nc	on automatic weighing instrument		15487782	
Software identification		automatic catchweigher	Checksums	f3c7675a or 34b95a82	
	autom	natic gravimetric filling instrument		15487782	

Rated minimum fill (Minfill) for automatic gravimetric filling instruments:

Average number of loads per fill:	1					
Accuracy class:	X(0,2)	X(0,5)	X(1)	X(2)		
d [g]		Minfill[g]				
0,5	28	11	5,5	3		
1	111	22	11	6		
2	334	44	22	12		
5	1665	335	110	30		
10	3330	1330	330	110		
20	6660	2660	1340	340		
50	25000	6650	3350	1650		
100	50000	20000	6700	3300		
200	100000	40000	20000	6600		
≥ 500	500d	200 d	100 d	50 d		



Number **TC10862** revision 0 Project number SO16202870 Page 3 of 5

Software:

- The identification number will be displayed after the sequence:
 - Stop all possible running processes (depending upon the running application);
 - Press the arrow-up button several times until the start-up message appears (depending upon the loaded application);
 - Press enter button to enter Supervisor Mode;
 - Press Info button several times until "4 Software ID" appears;
 - Press enter button:
 - The software ID will be displayed.
- The indicator has loadable software;
- Software specification (WELMEC 7.2):
 - Software type U;
 - Risk Class C;
 - Extension L/S/D.

List of legally relevant functions:

- Determination stability of equilibrium;
- Zero indicating;
- Semi-automatic zero-setting;
- Initial zero-setting;
- Zero-tracking;
- Semi-automatic subtractive tare balancing;
- Semi-automatic subtractive tare weighing;
- Preset tare;
- Gravity compensation;
- Adjustment / set-up mode via switch on the ADM (A/D) board;
- Acting upon significant faults;
- Set points;
- Indication of selected set point(s);
- Linearity compensation: the linearity can be compensated to maximum 6 points;
- Extended indicating, resolution 1/10 e for ≤ 5 seconds after manual command;
- Indications other than primary indications;
- Indication of additional information;
- Memory storage;
- Download of software recorded in audit trail.

Additional legally relevant function for tilt sensor:

- Tilt compensation $\leq 8^{\circ}$.

Additional legally relevant function for non-automatic weighing instrument:

- Additive tare, multiple range, maximum effect: T = + (Max₂ - Max₁)

Additional legally relevant functions for automatic gravimetric filling instrument:

- Automatic zero-setting, that operates as part of every automatic weighing cycle;
- Automatic tare-setting, that operates as part of every automatic weighing cycle;
- Automatic subtractive tare setting;
- Automatic additive tare setting, multiple range, maximum effect: T = + (Max₂ Max₁);



Number **TC10862** revision 0 Project number SO16202870 Page 4 of 5

- Preset value;
- Final feed cut-off device;
- Correction device.

1.3 Essential shapes

Number	Pages	Description	Remarks
10862/0-05	1	Display	-
10862/0-06	1	Housing without display	-
10862/0-07	1	Housing with display	-

The descriptive markings plate is secured against removal by sealing or will be destroyed when removed and contains at least the following information:

- This certificate number TC10862;
- Producers name or mark.

Inside the cabinet is an adjustment lock, located on the ADM (A/D) board.

1.4 Conditional parts

The indicator may be equipped with one or more of the following protective interfaces that have not to be secured:

- RS232;
- RS422;
- RS485;
- Ethernet;
- USB host;
- Bluetooth;
- PROFI-bus;
- PROFINET;
- Digital I/O;
- Incremental Encoder Interface;
- Analog I/O;
- Modbus;
- Ethernet for remote display.

1.5 Non-essential parts

Display; Keyboard;



Number **TC10862** revision 0 Project number SO16202870 Page 5 of 5

2 Seals

To secure components that may not be dismantled or adjusted by the user, the indicator has to be secured in a suitable manner on the locations indicated in the drawings:

Number	Pages	Description	Remarks
10862/0-08	1	Sealing of instrument	-
10862/0-09	1	Sealing connection tilt sensor	Connected to serial port KL3

The connecting cable of the load cell or the junction box is provided with possibility to seal.

3 Conditions for conformity assessment

The compatibility of load cells and indicator is established by the manufacturer by means of the compatibility of modules form, contained in WELMEC 2, 2015 clause 10 at the time of putting into use.

Other parties may use this Evaluation Certificate only with the written permission of the producer.

4 Reports

An overview of performed tests is given in the reports:

- No. NMi-14200302-01 dated 20 July 2015 that includes 58 pages;
- No. NMi-14200302-02 dated 20 July 2015 that includes 16 pages.

A report can be a test report, an evaluation report, a type evaluation report and/or a pattern evaluation report.