



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval

NMI S710

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

HBM Model PW15AH 50 kg Load Cell

submitted by Hottinger Baldwin Messtechnik GmbH
Im Tiefen See 45
D-64293 Darmstadt
Germany

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 60, *Metrological Regulation for Load Cells*, dated July 2004.

This approval becomes subject to review on 1/03/21, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variants 1 & 2 – approved – certificate issued	26/2/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S710' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S710' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

The values of the performance criteria (maximum number of scale intervals etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.

A handwritten signature in black ink, appearing to read 'Dr A Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

TECHNICAL SCHEDULE No S710

1. Description of Pattern **approved on 26/2/16**

An HBM model PW15AHC3 50kg stainless steel bending load cell of 50 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 3000 verification scale intervals.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer’s instructions and as shown in Figure 2.

1.2 Markings

Each load cell is marked with the following:

Manufacturer’s mark, or name written in full	HBM GmbH
Model number
Maximum capacity, E_{max} kg
Serial number
Pattern approval mark	NMI S710

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 **approved on 26/2/16**

Certain other capacities of the PW15AHC3 series and with characteristics as listed in Table 1.

Type: HBM PW15AHC3 #kg series as listed below, where # in the model number represents the capacity (E_{max}) in kilograms, e.g. the pattern model PW15AHC3 50kg is of 50 kg capacity.

3. Description of Variant 2 **approved on 26/2/16**

Certain capacities of the PW15PHC3 series (Figure 3) and with characteristic as listed in Table 1.

Type: HBM PW15PHC3 #kg series as listed below, where # in the model number represents the capacity (E_{max}) in kilograms.

TABLE 1 – approved versions of the pattern and variants 1 & 2

Type: Characteristics of the HBM PW15AHC3 #kg and PW15PHC3 #kg series as listed below, where # in the model number represents the capacity (E_{max}) in kilograms, e.g. the pattern model PW15PHC3 50kg is of 50 kg capacity.

Model Number	#=10	#=20	#=50	#=100
E_{max} (kg)	10	20	50	100
Class	C	C	C	C
nLC	3000	3000	3000	3000
V_{min} (kg)	0.001	0.002	0.005	0.01
DR (kg)	0.0017	0.0033	0.0083	0.0167
mV/V	2			
Input imp (Ω)	380			
Voltage (V)	15			
Cable length (m)	3 or 6			
Number of leads (plus shield)	6			

Where:

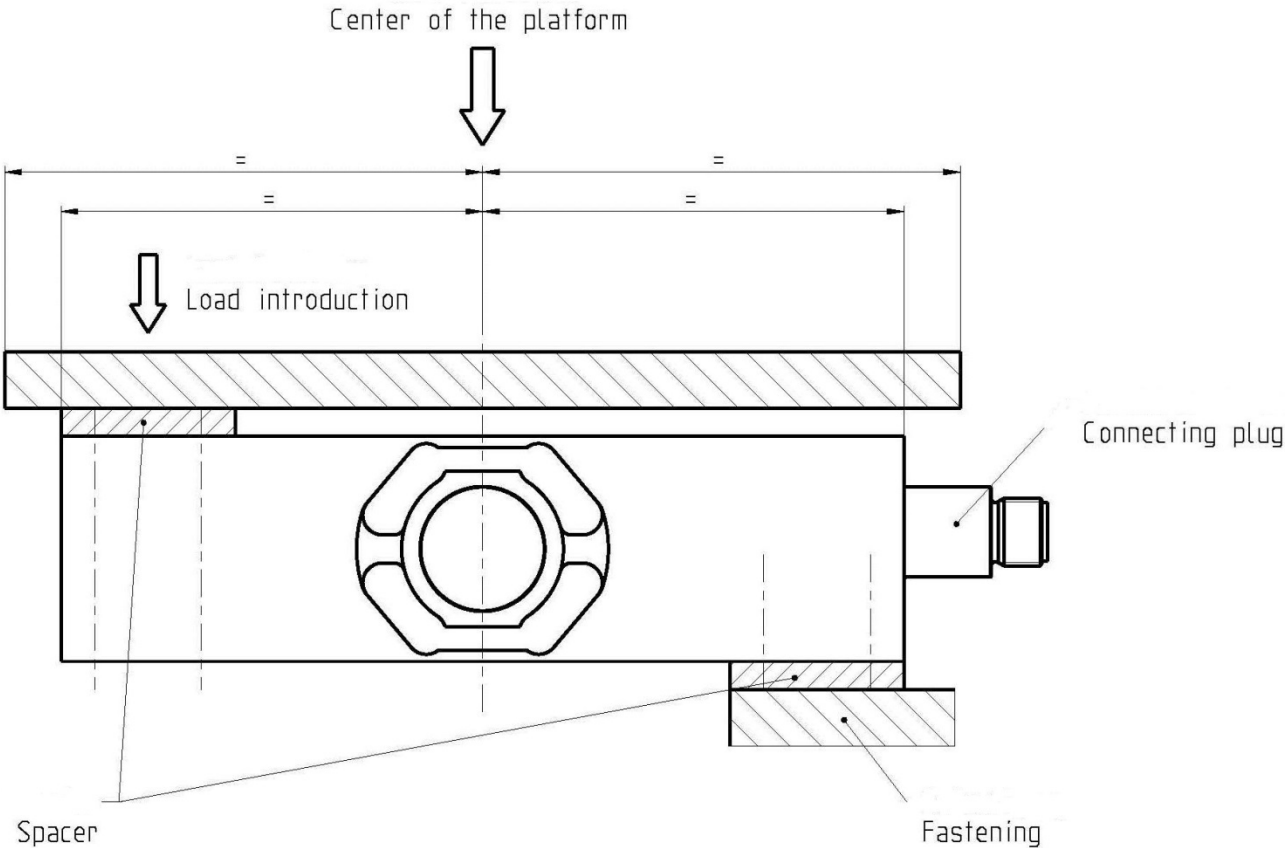
E_{max}	=	Maximum capacity
E_{min}	=	Minimum dead load
nLC	=	Maximum number of verification intervals
V_{min}	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (AC/DC)

FIGURE S710 – 1



HBM Model PW15AH Series Load Cell (pattern & variant 1)

FIGURE S710 – 2



Mounting Method (pattern and variants)

FIGURE S710 – 3



HBM Model PW15PH Series Load Cell (variant 2)

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