

Supplementary Certificate of Approval

No S490

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.

Eurocell Model CPD-M Load Cell

submitted by National Weighing & Instruments Pty Ltd

1/88 Magowar Road

Girraween NSW 2145

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 **1/03/17**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate issued	23/02/07
1	Pattern & variant 1 reviewed & updated – certificate issued	31/01/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S490' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S490' in addition to the approval number of the instrument, and only by persons authorised by the submittor.

It is the submittor'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*.

Dr A Rawlinson

TECHNICAL SCHEDULE No S490

1. Description of Pattern

approved on 23/02/07

A Eurocell model CPD-M digital load cell of 20 000 kg maximum capacity (Figure 1 and Tables 1 & 2).

These load cells shall only be used with indicators which are approved for use with compatible Eurocell digital load cells.

Note: The load cell may also be known as a Bilanciai model CPD-M (it is manufactured by Societa' Cooperativa Bilanciai).

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

Eurocell (or Bilanciai)

Model number CPD-M ##

(where ## is the additional marking as shown in Table 2)

Maximum capacity kg (or t)

Serial number
Pattern approval mark S490

1.3 Table of Specifications

Specifications for the pattern are given in Tables 1 and 2.

2. Description of Variant 1

approved on 23/02/07

Load cells of other capacities and characteristics as shown in Tables 1 and 2.

TABLE 1

Common characteristics (see additional Table below for specific models)							
Type: Eurocell model CPD-M							
Class	С						
Output rating (resolution)	200 000 counts at Emax (approx)						
Supply voltage (DC)	18 V maximum						
Communication	RS485						
Cable length	1200 m (*)						
Junction box	Eurocell/Bilanciai part numbers OC0235 or OC0236 (The submittor should be consulted regarding the acceptability of alternative junction box arrangements.)						
Digital indicator	Indicators approved as suitable for use with compatible Eurocell digital load cells						
Apportionment factor, pLC	0.8						

(*) The load cell is provided with a 6 pin socket to which a cable up to 1200 m in length may be fitted to connect to the junction box or indicator.

TABLE 2

Type: Eurocell Europe CPD-M ## (where ## is additional marking)									
Additional marking	C1	C2	C3	C4	C5	C6			
nLC	1000	2000	3000	4000	5000	6000			
Emax (kg)	20000	20000	20000	20000	20000	20000			
vmin (kg)	4.00	2.86	1.11	1.11	1.00	1.00			
DR (kg)	3.33	3.33	3.33	3.33	3.33	3.33			
Emax (kg)	35000	35000	35000	35000	35000	35000			
vmin (kg)	7.00	5.00	1.94	1.94	1.75	1.75			
DR (kg)	5.83	5.83	5.83	5.83	5.83	5.83			
Emax (kg)	50000	50000	50000	50000	50000	50000			
vmin (kg)	10.00	7.14	2.78	2.78	2.50	2.50			
DR (kg)	8.33	8.33	8.33	8.33	8.33	8.33			

Where: nLC = Maximum number of verification intervals

Emax = Maximum capacity

vmin = Minimum value of verification interval

DR = Minimum dead load output return value

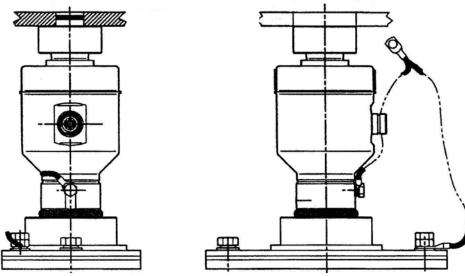
Note: The load cell markings may include the vmin value. Be aware that the values in the above table are rounded values, whereas the marked value may be unrounded and may be expressed in different units and using a 'decimal comma' rather than a decimal point (e.g. the marking may be 1111,111 g where the value in the above table is 1.11 kg).



Eurocell Model CPD-M Load Cell

FIGURE S490 - 2





Mounting Arrangement