



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval NMI S380

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 NTI-C3 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 **1/11/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – interim certificate issued	23/10/00
1	Pattern and variant 1 approved – certificate issued	17/01/01
2	Variant 2 approved – interim certificate issued	3/05/04
3	Variant 2 approved – certificate issued	13/07/04
4	Pattern and variants 1 & 2 amended (address) & reviewed – notification of change issued	4/08/06
5	Pattern and variants 1 & 2 updated & reviewed – certificate issued	18/05/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI or NSC S380' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI or NSC S380' 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*.



Dr A Rawlinson

TECHNICAL SCHEDULE No S380

1. Description of Pattern **approved on 23/10/00**

A Eurocell model NTI-C3 load cell of 500 kg maximum capacity (Figure 1 and Table 1) approved for use with up to 3000 verification 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	Soc. Coop. Bilanciai, Italy
Model number
Maximum capacity, E_{max} kg or t
Serial number
Pattern approval mark	NMI S380

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 **approved on 23/10/00**

Other models and capacities as listed in Tables 1 to 3.

3. Description of Variant 2 **approved on 3/05/04**

Certain models and capacities of the Eurocell NTI-C3M series as listed in Table 4.

TABLE 1

Type: Eurocell NTI-C3 Series

Maximum capacity, E_{max} (kg)	500	1000	2000
Accuracy class	C	C	C
Maximum number of verification intervals, nLC	3000	3000	3000
Minimum value of verification interval, v_{min} (kg)	0.042	0.083	0.167
Minimum dead load output return value, DR (kg)	0.080	0.160	0.320
Output rating (nominal), mV/V	2	2	2
Input impedance (nominal), (Ω)	350	350	350
Supply voltage (AC or DC), (V)	5 – 15	5 – 15	5 – 15
Cable length (± 0.1 m), (m)	5	5	5
Number of leads (plus shield)	4	4	4

TABLE 2

Type: Eurocell NTI-C2 Series

Maximum capacity, E_{max} (kg)	500	1000	2000
Accuracy class	C	C	C
Maximum number of verification intervals, nLC	2000	2000	2000
Minimum value of verification interval, v_{min} (kg)	0.071	0.143	0.286
Minimum dead load output return value, DR (kg)	0.125	0.250	0.500
Output rating (nominal), (mV/V)	2	2	2
Input impedance (nominal), (Ω)	350	350	350
Supply voltage (AC or DC), (V)	5 – 15	5 – 15	5 – 15
Cable length (± 0.1 m), (m)	5	5	5
Number of leads (plus shield)	4	4	4

TABLE 3

Type: Eurocell NTI-C1 Series

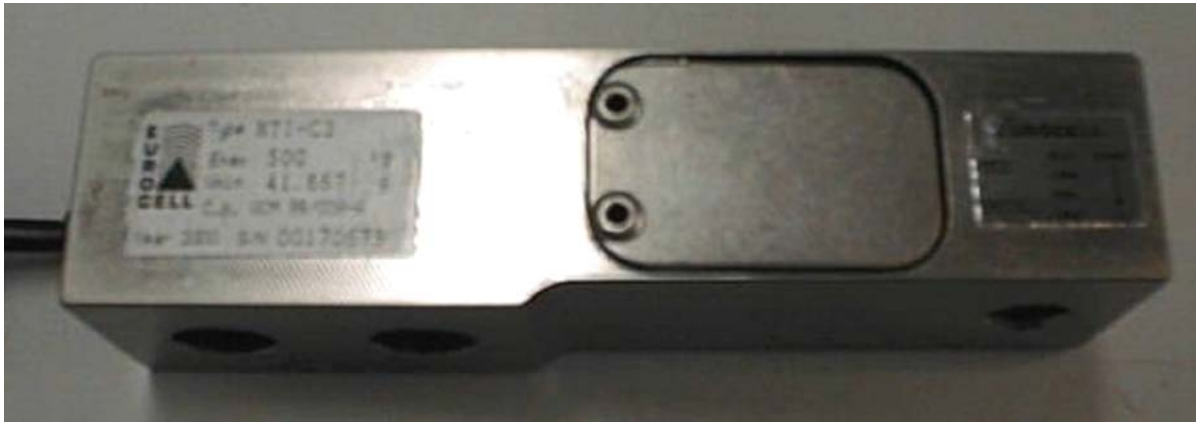
Maximum capacity, E_{max} (kg)	500	1000	2000
Accuracy class	C	C	C
Maximum number of verification intervals, nLC	1000	1000	1000
Minimum value of verification interval, v_{min} (kg)	0.100	0.200	0.400
Minimum dead load output return value, DR (kg)	0.250	0.500	1.000
Output rating (nominal), (mV/V)	2	2	2
Input impedance (nominal), (Ω)	350	350	350
Supply voltage (AC or DC), (V)	5 – 15	5 – 15	5 – 15
Cable length (± 0.1 m), (m)	5	5	5
Number of leads (plus shield)	4	4	4

TABLE 4

Type: Eurocell NTI-C3M Series

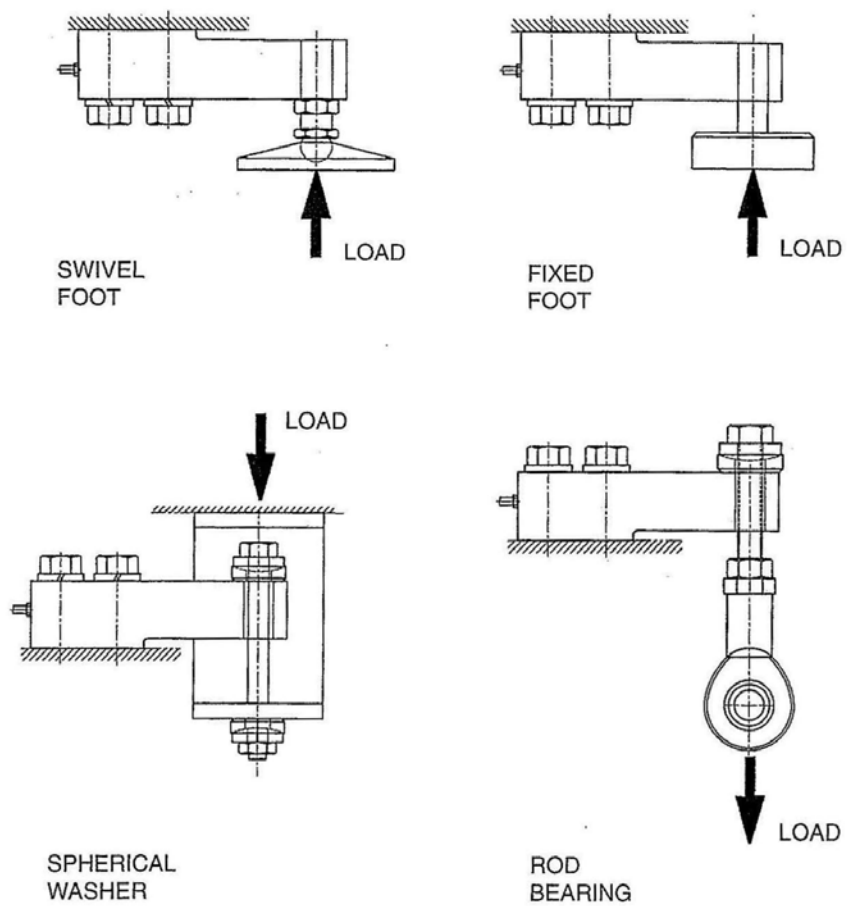
Maximum capacity, E_{max} (kg)	500	1000	2000
Accuracy class	C	C	C
Maximum number of verification intervals, nLC	3000	3000	3000
Minimum value of verification interval, v_{min} (kg)	0.03125	0.0625	0.125
Minimum dead load output return value, DR (kg)	0.03125	0.0625	0.125
Output rating (nominal), (mV/V)	2	2	2
Input impedance (nominal), (Ω)	350	350	350
Supply voltage (AC or DC), (V)	5 – 15	5 – 15	5 – 15
Cable length (± 0.1 m), (m)	5	5	5
Number of leads (plus shield)	4	4	4

FIGURE S380 – 1



Typical Eurocell NTI Series Load Cell

FIGURE S380 – 2



Mounting Methods

~ End of Document ~