Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval

NMI S412

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.

PT Ltd Model HPC-30 Load Cell

submitted by PT Ltd
7 Marken Place
Glenfield
NEW ZEALAND

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 **1/12/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – interim certificate issued	14/11/02
1	Pattern and variant 1 approved – certificate issued	11/03/03
2	Pattern and variant 1 amended (submittor name) & reviewed – notification of change issued	25/02/08
3	Pattern and variant 1 **reviewed** – certificate issued	9/06/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S412' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S412' 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 S412

1. Description of Pattern approved on 14/11/02

A PT Ltd model HPC-30 load cell of 30 000 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	PT Ltd
Model number	……..
Maximum capacity, E_{max}	…….. kg (or t)
Serial number	……..
Pattern approval mark	NMI S412

Note: PT Ltd was formerly known as Precision Transducers, instruments may have this marking.

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 approved on 14/11/02

A PT Ltd model HPC-45 load cell of 45 000 kg maximum capacity (Table 1).

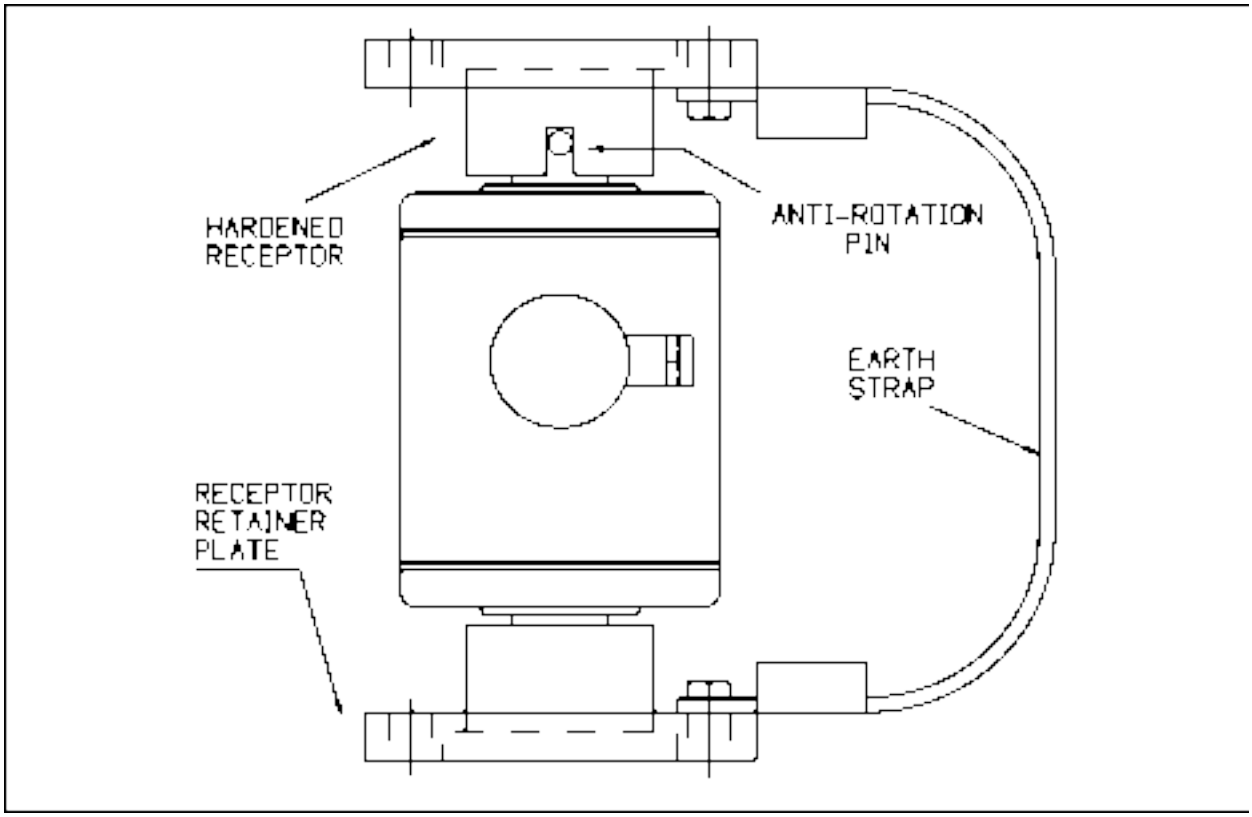
TABLE 1

Type: PT Ltd	HPC-30	HPC-45
Maximum capacity, E_{max} (kg)	30 000	45 000
Accuracy class	C	C
Maximum number of verification intervals, nLC	3000	3000
Minimum value of verification interval, v_{min} (kg)	2.2	3.3
Minimum dead load output return value, DR (kg)	2.4	3.6
Output rating (nominal), mV/V	2	2
Input impedance (nominal), (Ω)	750	750
Supply voltage (AC or DC), (V)	5 – 18	5 – 18
Cable length (±0.1 m), (m)	0.5 to 20	0.5 to 20
Number of leads (plus shield)	6	6

FIGURE S412 - 1

PT Ltd Model HPC-30 Load Cell

FIGURE S412 - 2



Typical Mounting Method

~ End of Document ~