Ministry of Business, Innovation & Employment

Wellington, New Zealand

CERTIFICATE OF APPROVAL

Weights and Measures Regulations 1999
Part 1 Regulations 5 and 6

Current Date of Issue: 19 July 2017
Original Date of Issue: 19 July 2017

Certificate 2287

Overseas Certificate No: OIML R76/2006-DK3-17.04

This certifies that the PT PT200, PT210, PT321 & PT322, Instrument described overleaf has been approved as suitable for trade use subject to any conditions stated in the schedule:

Figure 1(A) - PT Model PT200 Digital Indicator

S R Bobbala **J P Crane**

Under delegated authority from the Chief Executive of The Ministry of Business, Innovation & Employment

Note: This is not an approval to any person but only with respect to the type and pattern of weight, measure, or weighing or measuring instrument.

SCHEDULE

Overseas Certificate No: OIML R76/2006-DK3-17.04

Pattern:	Indicating Device
Make:	PT
Model:	PT200, PT210, PT321 & PT322
Manufacturer:	PT Ltd
Submitter:	PT Ltd
Class:	III or IIII
Excitation Voltage (V DC):	5
Minimum Sensitivity (μV/Scale Interval):	0.4
Maximum value of cable length per wire cross section (m/ mm²):	4824
Minimum Load Cell Impendence (Ω):	43
Maximum Load Cell Impendence (Ω):	1100
Fraction of MPE (Pind):	0.5
Conditions of Approval:	1. The approval does not include the use of the indicator as an automatic weighing instrument. 2. This Certificate only covers compliance with respects to the relevant sections of the Weights and Measures Act and Regulations and should not be construed as guarantee of compliance with any safety requirements. 3. Trading Standards reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Description:

A PT Model PT200, PT210, PT321 & PT322 digital indicators (Figure 1) are approved to configure as a single-interval with a Class III or IIII, non-automatic weighing Instruments.

Maximum number of verification scale intervals:
Single interval:
• 10 000 (Class III); or
• 1000 (Class IIII)

Load cell connection 4 wire or 6 wire

Maximum value of cable length per cross wire section between the indicator and the junction box or the load cells is 4824 m/mm². In case a 4-wire connection is used, the load cells are connected directly without the junction box.

Construction:
The indicators are housed in an enclosure intended for panel mount with the front face built in either ABS plastic or stainless steel. Instruments have a LCD type display and an operator interface key pad.

Display Check:
A display check is initiated whenever power is applied.

Power Supply:
• 12 ~ 28 VDC mains adaptor;

Interfaces:
The instruments may be fitted with the following type of interfaces for the connection of auxiliary and/or peripheral devices:
• RS232
• RS485
• Digital Input/Output
• Profibus DPV1 interface
• Profinet interface
• CANopen interface
• Ethernet
• Modbus RTU
• Modbus TCP
• Analogue output

Note: The Auxiliary devices shall meet the following conditions:
(i) have no function that would cause a variation in the display of the measured or computed quantities
(ii) is not capable of transmitting any data or instruction into the weighing instrument which could alter the weighing results, other than to release a printout, checking for correct data transmission or validation
Or

As indicated from time to time by Trading Standards.

Software:
The software version is 2.yy. Non-legally relevant part of software version is 'yy'. The software version is displayed during power-on sequence.

ZERO SETTING DEVICES:
The Initial zero setting device of the pattern has a nominal range of not more than 20% of the maximum capacity of the instrument.
Zero is automatically corrected to within ± 0.25e whenever power is applied and whenever the instrument comes to rest within 0.5e of Zero.
The Instrument has a semi-automatic zero setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

TARE:
The indicator may be fitted with a semi-automatic subtractive tare device up to the maximum capacity of the instrument to which the indicator is fitted.

METROLOGICAL MARKINGS:

Instruments must carry the following markings:
Manufacturer's mark, or name:
Accuracy class:
Pattern approval number: TS2287
Maximum capacity Max .....kg #
Minimum capacity Min .....kg #
Verification scale interval e = ...kg #
Maximum subtractive tare T = - ……kg##
Serial number of the instrument ……..
These markings are also shown near the display of the result.
Tare is required if it is not equal to Max.

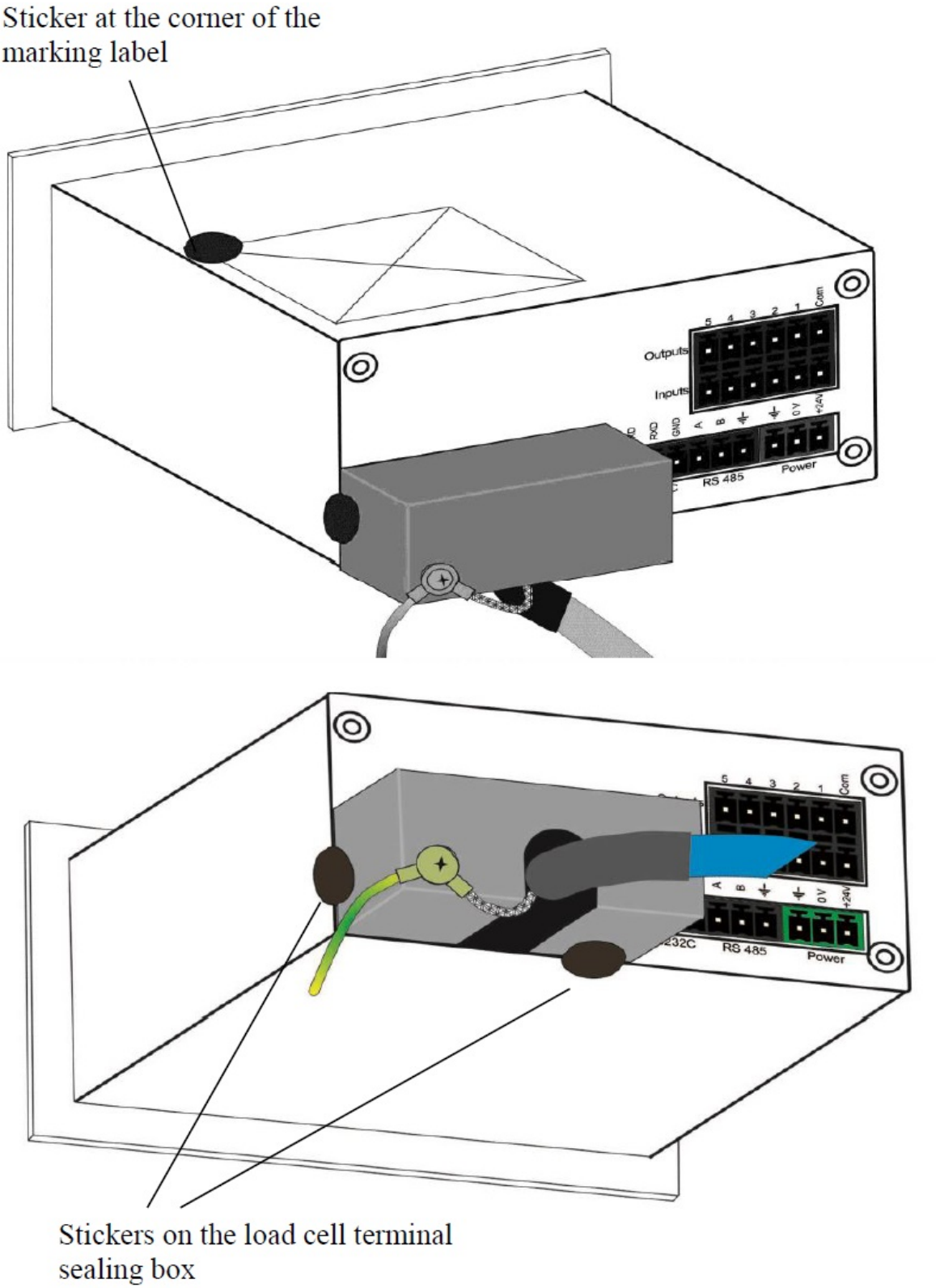
Sealing:	A calibration switch is located within the indicator housing, access to the calibration switch is restricted by applying an approved type seal (Figure 2). In addition to the above, the load cell connections (junction box) must be sealed using an approved type destructible adhesive labels or wire and lead type seal.
Mark of Verification:	The approved type of seal used for sealing must carry a Mark of Verification. Removal of seal deems the instrument not verified.
Temperature:	-10°C to +40°C

Figure 1(B) - PT Model PT210 Digital Indicator

Figure 1(C) - PT Model PT321 Digital Indicator

Figure 1(D) - PT Model PT322 Digital Indicator

Figure 2 - Typical Sealing Provision



Sealing of PT200/PT210/PT321/PT322 indicator with brittle stickers