S322A
23 August 2007

Australian Government

National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

Cancellation

Supplementary Certificate of Approval No S322A

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

This is to certify that the approval for use for trade granted in respect of the

GLOBAL Weighing Model PR1613/00 Digital Indicator

submitted by GWT GLOBAL Weighing Technologies GmbH
(now Sartorius Hamburg)
Meiendorfer Strasse 205
22145 Hamburg
GERMANY

has been cancelled in respect of new instruments as from 1 October 2007.

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

National Standards Commission

12 Lyonpark Road, North Ryde NSW

Supplementary Certificate of Approval

No S322A

Issued 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

GLOBAL Weighing Model PR1613/00 Digital Indicator

submitted by GWT GLOBAL Weighing Technologies GmbH
Meiendorfer Strasse 205
22145 Hamburg
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 Certificate is issued upon completion of a review of NSC approval No S322.

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CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 February 2006, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No S322A and only by persons authorised by the submittor.

Instruments incorporating a digital indicator purporting to comply with this approval shall be marked NSC No S322A in addition to the approval number of the instrument.

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 Commission 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 the Commission's Document NSC 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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate No S1/0/A.

The Commission reserves the right to examine any instrument or digital indicator of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 15 January 2002

- A GLOBAL Weighing model PR1613/00 single or multiple-range digital mass indicator.

Variants: approved 15 January 2002

1. Certain other models and configurations.
2. With an external power supply unit.

Technical Schedule No S322 describes the pattern and variants 1 & 2.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S322A dated 25 March 2002
Technical Schedule No S322A dated 25 March 2002 (incl. Table 1 and Test Procedure)
Figures 1 and 2 dated 25 March 2002

Signed by a person authorised under Regulation 60 of the National Measurement Regulations 1999 to exercise the powers and functions of the Commission under this Regulation.

TECHNICAL SCHEDULE No S322A

Pattern: GLOBAL Weighing Model PR1613/00 Digital Indicator.

Submittor: GWT GLOBAL Weighing Technologies GmbH
Meiendorfer Strasse 205
22145 Hamburg
GERMANY

1. Description of Pattern

A GLOBAL Weighing model PR1613/00 single or multiple-range digital mass indicator (Figure1 and Table 1) which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices. Instruments are approved for use with a maximum of 5000 verification scale intervals per range.

1.1 Zero

Zero is automatically corrected to within ±0.25e whenever the instrument comes to rest within 0.5e of zero. If the instrument comes to rest outside that range but within the zero setting range, zero may be set by pressing the zero button.

The instrument has an initial zero-setting device with a nominal range of not more than 20% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic subtractive taring device of up to the maximum capacity of the instrument may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Markings

Instruments carry the following markings:

Manufacturer's mark, or name written in full	.....
Indication of accuracy class	(III)
Maximum capacity (for each range)	Max ..... kg *
Minimum capacity (for each range)	Min ..... kg *
Verification scale interval (for each range)	*e* = ... kg *
Serial number of the instrument	…….....
Pattern approval mark for the indicator	NSC No S322A
Pattern approval mark for other components	..... #

* These markings are also shown near the display of the result if they are not already located there.

\# May be located separately from the other markings.

1.5 Sealing and Verification/Certification Provision

Provision is made for the calibration adjustments to be sealed.

Provision is made for the application of a verification/certification mark.

2. Description of Variants

2.1 Variant 1

Other models and configurations as listed below:

PR1612/02	The pattern, but with reduced input/output capabilities.
PR1613/01	The pattern, but with a 24 V AC/DC power supply.
PR1613/03	In an alternative housing, with an additional display and keyboard (Figure 2).
PR1613/04	In an alternative housing, with an additional display and keyboard and with a 24 V AC/DC power supply.
PR1613/10	The pattern with ‘weighbridge’ software.
PR1613/20	The pattern with ‘batching’ software.

Note: The model PR1613/03 indicator may also be fitted with “PR1613/10 ‘weighbridge’ software”. In this configuration it is accceptable for the indicator to be connected to another Commission-approved PR1613 or PR1612 series indicator. In such cases, the lower display of the PR1613/03 indicator acts as a summing indicator allowing summing of indications of the weighbridges attached to both indicators.

Instruments shall comply with clause **1.11 Requirements for Summing Indicators** of NSC General Supplementary Certificate of Approval No S1/0/A.

2.2 Variant 2

With an Arlec model ENG750 external power supply (in a model PC6 enclosure) in which case instruments have certain different specifications as shown in Table 1 .

TABLE 1 — Specifications

Maximum number of verification scale intervals	5000 or 5000 per range
Minimum sensitivity	0.6 μV/scale interval
Excitation voltage	12 or 20 V DC
Minimum load impedance	87.5 ohm - (40 ohm Variant 2)
Maximum excitation current	230 mA - (500 mA Variant 2)

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Uniform Test Procedures.

Maximum Permissible Errors at Verification/Certification

For the weighing range in use, the maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, *m*, expressed in verification scale intervals, *e*, are:

±0.5*e* for loads $0 \leq m \leq 500$;
±1.0*e* for loads $500 < m \leq 2\,000$; and
±1.5*e* for loads $2\,000 < m \leq 10\,000$.

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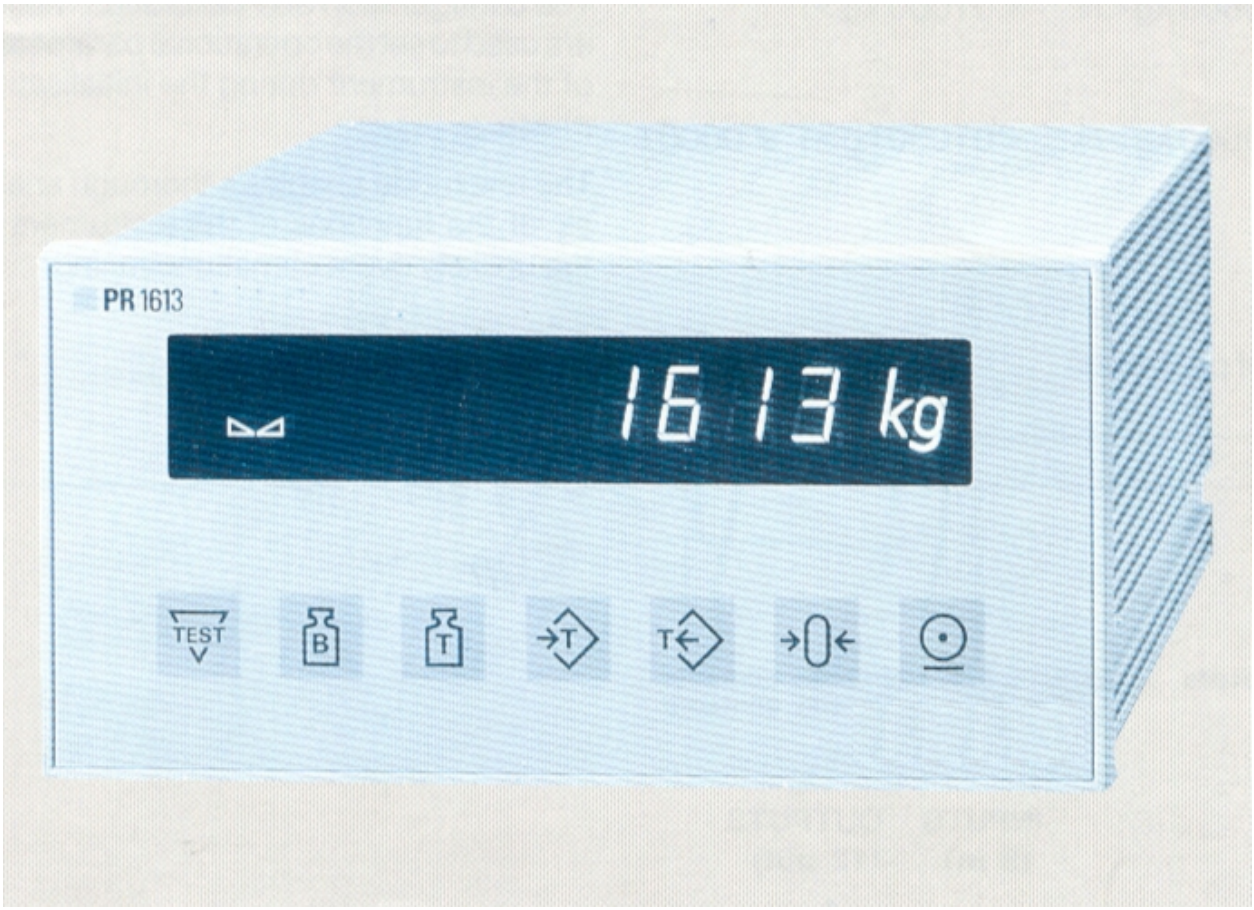
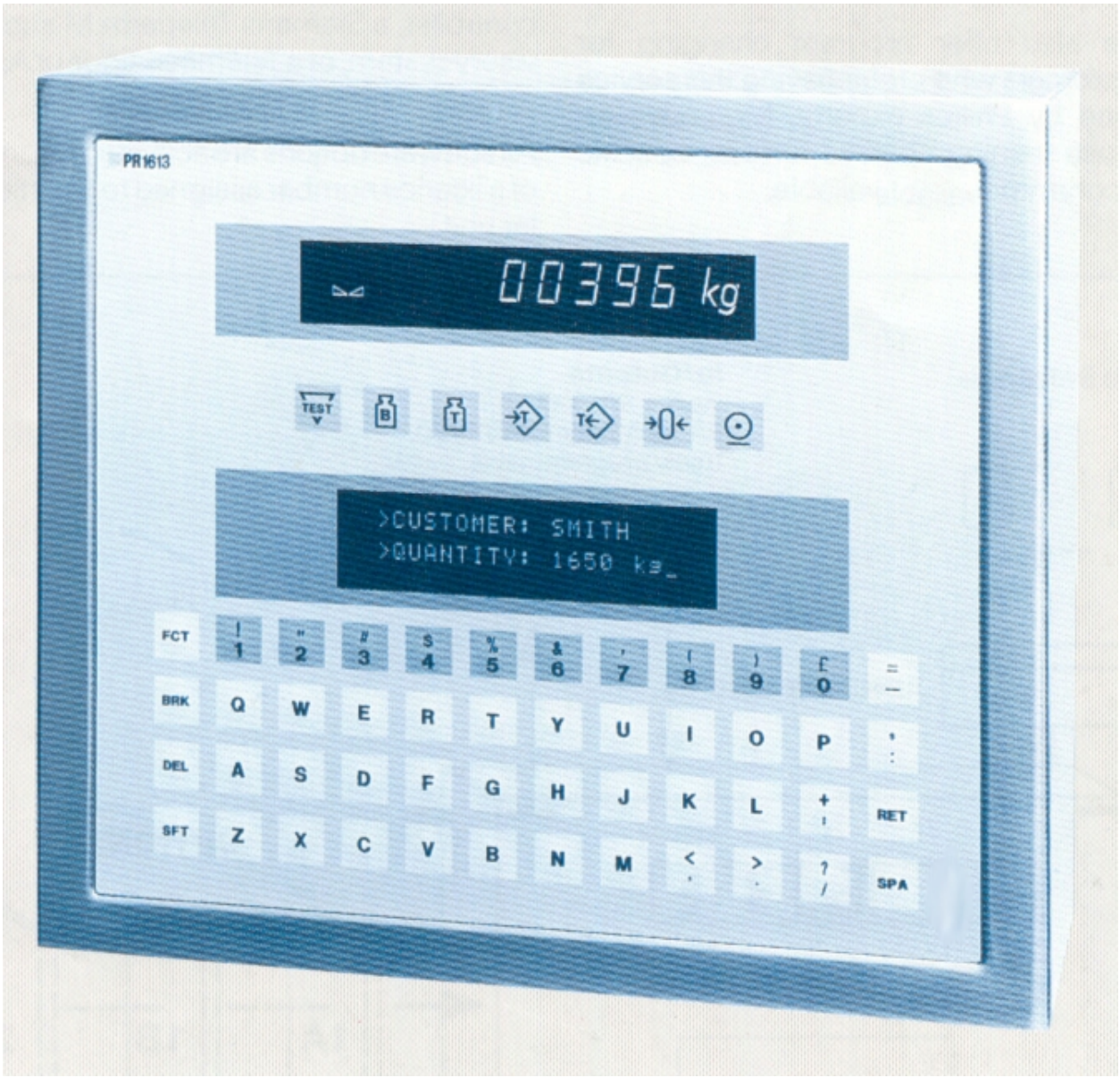
FIGURE S322A - 1



GLOBAL Weighing Model PR1613/00 Digital Indicator

FIGURE S322A - 2



GLOBAL Weighing Model PR1613/03 Digital Indicator