



Australian Government
**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Cancellation
Supplementary Certificate of Approval
No S353

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

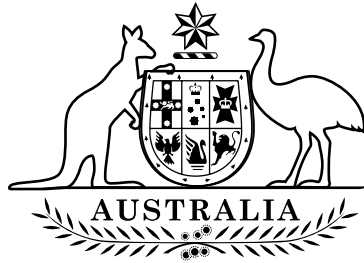
Mettler Toledo Model Panther Digital Indicator

submitted by Mettler Toledo Limited
 220 Turner Street
 Port Melbourne VIC 3207

has been cancelled in respect of new instruments as from 1 February 2012.

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

A handwritten signature in black ink, consisting of stylized cursive letters, likely representing the Chief Metrologist.



National Standards Commission

Supplementary Certificate of Approval

No S353

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

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

Mettler Toledo Model Panther Digital Indicator

submitted by Mettler Toledo Pty Ltd
 525 Graham Street
 Port Melbourne VIC 3207.

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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 May 2003, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked NSC No S353 and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S353 in addition to the approval number of the instrument.

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 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 106.

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

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

DESCRIPTIVE ADVICE

Pattern: approved 13 March 1998

- A Mettler Toledo model Panther digital indicator.

Variant: approved 21 May 1998

1. Without the analog input circuit board.

Technical Schedule No S353 describes the pattern and variant 1.

Variant: approved 17 March 1999

2. Model Panther *Plus* digital indicator.

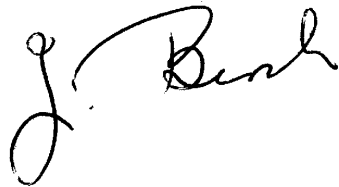
Technical Schedule No S353 Variation No 1 describes variant 2.

FILING ADVICE

Supplementary Certificate of Approval No S353 dated 10 July 1998 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Supplementary Certificate of Approval No S353 dated 30 May 1999
Technical Schedule No S353 dated 10 July 1998 (incl. Table 1 & Test
Procedure)
Technical Schedule No S353 Variation No 1 dated 30 May 1999
Figures 1 to 4 dated 10 July 1998
Figure 5 dated 30 May 1999

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

A handwritten signature in black ink, appearing to read 'J. Benh', is written over a horizontal line.

TECHNICAL SCHEDULE No S353

Pattern: Mettler Toledo Model Panther Digital Indicator.

Submittor: Mettler Toledo Pty Ltd
525 Graham Street
Port Melbourne VIC 3207.

1. Description of Pattern

A Mettler Toledo model Panther digital indicator (Table 1) which is approved for use with up to 3000 verification scale intervals and which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

Instruments are in the housings shown in Figures 1 and 2.

1.1 Zero

Zero is automatically corrected to within $\pm 0.25e$ 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.

The instrument has an initial zero-setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

1.2 Tare

A semi-automatic and/or an automatic subtractive taring device, each having a capacity of up to maximum capacity of the instrument, may be fitted.

1.3 Display Check

A display check is initiated whenever power is applied.

1.4 Sealing Provision


Provision is made for the calibration adjustment to be sealed. The front panel of the harsh environment version is sealed to the main body (Figure 3). For the panel mount version, the rear panel is sealed to the main body (Figure 4), and there is a sealed cover over the load cell terminal block.

1.5 Verification/Certification Provision

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

1.6 Markings

Instruments carry the following markings, in the form shown at right:

Manufacturer's mark, or name written in full	
Indication of accuracy class	
Maximum capacity	<i>Max</i> kg *
Minimum capacity	<i>Min</i> kg *
Verification scale interval	<i>e</i> = kg *
Serial number of the instrument	
Pattern approval mark for the indicator	NSC No S353

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

In addition, instruments not greater than 100 kg capacity shall carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

TABLE 1 — Specifications

Maximum number of verification scale intervals	3000
Minimum sensitivity	0.9 μ V/scale interval
Excitation voltage	5 V DC
Maximum excitation current	111 mA

1. Description of Variant 1

Without the analog input circuit board, in which case the indicator shall only be used with Commission-approved Mettler Toledo 'DigiTOL' load cells.

The maximum number of verification scale intervals (VSI) applicable is determined by the number of VSI given in the approval documentation for the load cells used.

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 Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

The maximum permissible errors for increasing and decreasing loads on initial verification/certification for loads, m , expressed in verification scale intervals, e , are:

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

TECHNICAL SCHEDULE No S353
VARIATION No 1

Pattern: Mettler Toledo Model Panther Digital Indicator.

Submittor: Mettler Toledo Pty Ltd
525 Graham Street
Port Melbourne VIC 3207.

1. Description of Variant 2

A Mettler Toledo model Panther *Plus* digital indicator (Figure 5) which is similar to the pattern and in addition is fitted with a pre-set tare device having a capacity of up to the maximum capacity of the instrument.

FIGURE S353 - 1



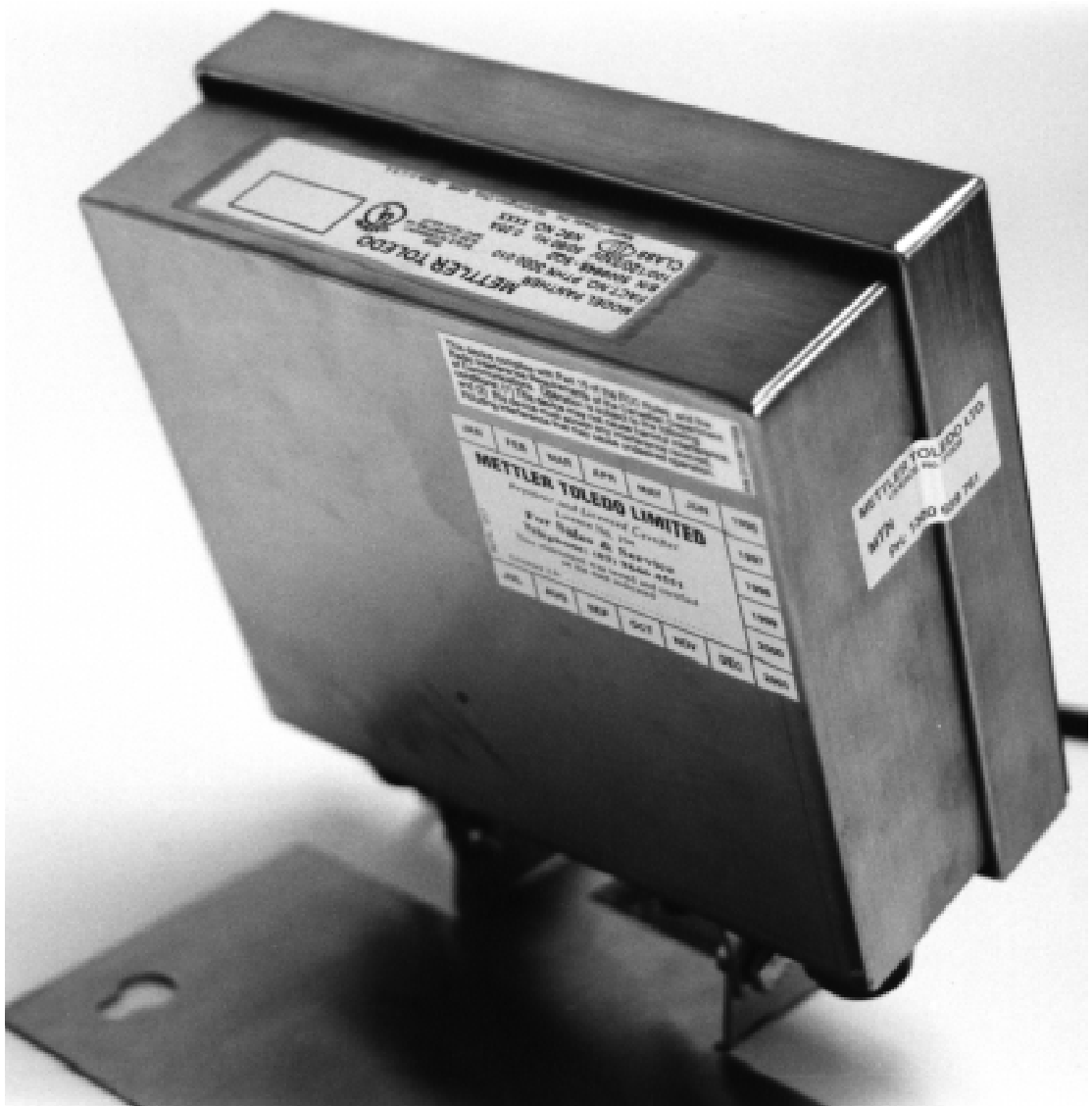
Mettler Toledo Model Panther Digital Indicator -
Harsh Environment Version

FIGURE S353 - 2



Mettler Toledo Model Panther Digital Indicator -
Panel Mount Version

FIGURE S353 - 3



Showing Sealing - Harsh Environment Version

FIGURE S353 - 4



Showing Sealing - Panel Mount Version

FIGURE S353 - 5



Mettler Toledo Model Panther *Plus* Digital Indicator