Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

Certificate of Approval

NMI 6/4C/290

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.

NCR Model RealScan™ 7879-2000 Weighing Instrument

submitted by NCR Corporation
2651 Satellite Blvd
Duluth Georgia 30096
USA

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 76, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

This approval becomes subject to review on 1/04/20, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – interim certificate issued	27/03/15
1	Pattern & variant 1 approved – certificate issued	16/07/15
2	Variant 1 amended (**footnote**) – certificate issued	10/11/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number ‘NMI 6/4C/290’ 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.

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

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 6/4C/290

1. Description of Pattern approved on 27/03/15

An NCR model RealScan™ 7879-2000 (#) class (III) non-automatic self-indicating weighing instrument of 15 kg maximum capacity with a verification scale interval of 0.005 kg (Figures 1 and 2).

(#) The last three digits of the model number (RealScan™ 7879-2***) may be numerals other than '0', and an additional suffix (e.g. -9090) may be added, but these represent features which are not metrologically significant.

Instruments are fitted with the RealScan 25 Remote Compact Display which is available with one (Figure 3a) or two display modules (Figure 3b), mounted on separate or the same column. Instruments are marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording) unless two displays are present or unless the single display is located such that all primary indications are clearly and simultaneously displayed to both the vendor and the customer.

The instrument has the load platter directly supported by four Flintec type PBNS 30 load cells. The platter size of the NCR 7879-2000 is 285 mm × 320 mm.

Instruments are approved for use over a temperature range of 0°C to +40°C and must be so marked.

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

1.1 Zero

A zero-tracking device may be fitted.

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

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.

Note: The LED light beside the zero setting device button is a combined zero indicating and stable indication device.

1.2 Display Check

A display check is initiated whenever power is applied.

1.3 Scanner

Instruments are provided with an integral image scanner for reading bar codes.

1.4 Power Supply

Power for the NCR Model 7879-2000 instrument may be supplied by:

- an 12 V AC/DC mains adaptor; and/or
- a powered USB interface.

Note: The AC/DC mains adaptor supplied for the instrument was AcBel model API2AD13 power supply (output 12 V DC, 3.33 A) – the submittor should be consulted regarding the acceptability of alternative power supply units.

1.5 Levelling

The instrument is intended to be installed in a fixed position (e.g. a supermarket check-out) and hence is not fitted with adjustable feet.

1.6 Interfaces

Instruments may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Any interfaces shall comply with clause 5.3.6 of document NMI R76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with Supplementary Certificate No S1/0/B (in particular in regard to the data and its format).

Instruments may be fitted with RS-232, RS-485, USB interface, Ethernet, and electronic Article Survellance (EAS) interface.

1.7 Sealing Provision

Provision is made for the calibration adjustments to be sealed.

This may be by sealing of the metal cover over the calibration adjustment switch which is located beneath the load receptor (Figure 4a), and below a plastic calibration switch cover. The metal cover may be sealed by means of a lead and wire (or similar) type seal through the holes provided. Alternatively, a destructible adhesive label placed over the plastic switch cover as shown in Figure 4b.

As an alternative to the above methods of physical sealing, sealing may be achieved by recording the values of the Calibration and Parameter Counters on a destructible adhesive label and affixing this to the instrument at the time of verification. The Calibration and Parameter Counters are accessed by holding down the '▶0◀' button – the counters will appear alternately as a number followed by either CAL or PAR (e.g. x.CAL & y.PAR).

Any subsequent alteration to the calibration or configuration will be evident as the recorded values and the current counter values will differ.

1.8 Descriptive Markings and Notices

Instruments are marked with the following data, together in one location, in the form shown at right:

Manufacturer's mark, or name written in full	NCR Corporation
Indication of accuracy class	(III)
Pattern approval number for the instrument	NMI 6/4C/290
Maximum capacity	*Max* ..... g or kg #
Minimum capacity	*Min* ..... g or kg #
Verification scale interval	*e* = ... g or kg #
Special temperature limits	0^{o}C to +40^{o}C
Serial number of the instrument	…….

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

1.9 Verification Provision

Provision is made for the application of a verification mark.

1.10 Software

The software is designated version 3000500 with release date code in the format mm.dd.yy. (The release date will vary as non-metrological changes are made.)

The software version and released date can be seen on the display by pushing and holding the '▶0◀' button for five seconds.

2. Description of Variant 1 approved on 27/03/15

The model 7879-5000 (#) which is similar to the pattern except that it has a shorter, 285 mm × 210 mm (Figure 5).

(#) The last three digits of the model number (RealScan™ 7879-5*) may be numerals other than '0', and an additional suffix (e.g. -9090) may be added, but these represent features which are not metrologically significant.**

TEST PROCEDURE No 6/4C/290

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

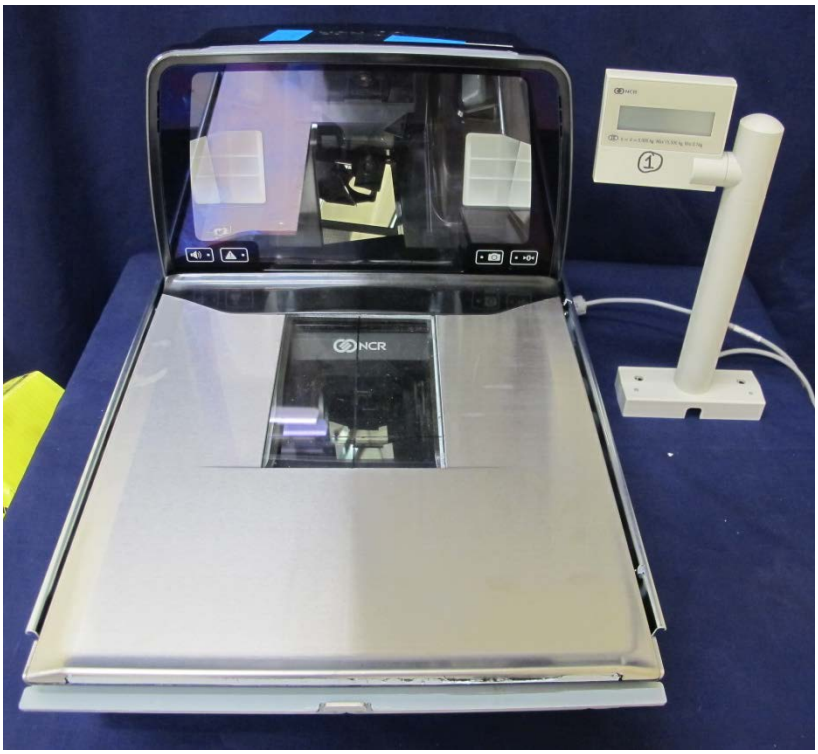
Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

Tests

Ensure that instruments are only being used within the special temperature limits stated elsewhere in this Technical Schedule.

FIGURE 6/4C/290 – 1



NCR Model RealScan 7879-2000 Weighing Instrument

FIGURE 6/4C/290 – 2

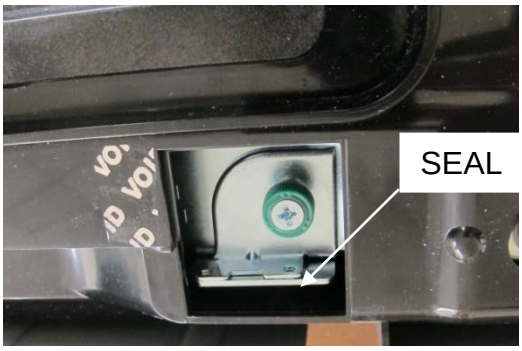
NCR Model RealScan 7879-2000 Weighing Instrument
With Load Receptor Plate Removed

FIGURE 6/4C/290 – 3

(a) NCR Model RealScan 25 Remote Compact Single Display

(b) NCR Model RealScan 25 Remote Compact Dual Display

FIGURE 6/4C/290 – 4



(a) Typical Sealing Using Lead and Wire Type

(b) Typical Sealing Using a Destructible Adhesive Label

FIGURE 6/4C/290 – 5

NCR Model RealScan 7879-5000 Weighing Instrument

~ End of Document ~