Australian Government
National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

No S629

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.

Schenck Process Model WDI Load Cell

submitted by Schenck Process Australia Pty Ltd
65 Epping Road
North Ryde NSW 2113

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 1/07/18, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	28/06/13

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S629' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S629' 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 S629

1. Description of Pattern approved on 28/06/13

A Schenck Process model WDI load cell of 15 000 kg maximum capacity (Figure 1 and Table 1).

These stainless steel compression load cells may be fitted with two measuring channels. The 2nd channel is not approved for trade use and must be so marked.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions. A typical example is shown in Figure 2.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Schenck Process GmbH
Model number	..…...
Maximum capacity, E_{max}	..…... kg or t
Serial number	..…...
Pattern approval mark	NMI S629

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

TABLE 1

Model Number	WDI
E_{max} (kg)	15 000
Class	C
nLC	1000
V_{min} (kg)	3.75
DR (kg)	7.5
mV/V	0.65
Input imp (Ω)	778
Voltage (V)	36
Cable length (m)	15
Number of leads (plus shield)	4

Where:

E_{max}	=	Maximum capacity
nLC	=	Maximum number of verification intervals
V_{min}	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (AC/DC)

FIGURE S629 – 1

(a) Schenck Process Model WDI Load Cell With One Measuring Channel

(b) Schenck Process Model WDI Load Cell with Two Measuring Channels

FIGURE S629 – 2

A Typical Mounting Method (in this case for a train weighing in-motion instrument)

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