Australian Government
National Measurement Institute

Bradfield Road, West Lindfield NSW 2070

Cancellation

Supplementary Certificate of Approval

No S469

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

Revere Transducers Model DSC Load Cell

submitted by Scale Components Pty Ltd
now of 4 Dan Street
Slacks Creek QLD 4127

has been cancelled in respect of new instruments as from 1 June 2011.

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

Australian Government

National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

No S469

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

Revere Transducers Model DSC Load Cell

submitted by Scale Components Pty Ltd
288 Musgrave Road
Coopers Plains QLD 4108.

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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 April 2011, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S469' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S469' in addition to the approval number of the instrument.

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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 National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

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.

DESCRIPTIVE ADVICE

Pattern: approved 20 March 2006

- A Revere Transducers model DSC digital load cell of 30 000 kg maximum capacity.

Variant: approved 20 March 2006

1. Load cells of other capacities and characteristics as listed in Tables 1 to 4.

Technical Schedule No S469 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S469 dated 13 October 2006
Technical Schedule No S469 dated 13 October 2006 (incl. Tables 1 to 4, and Test Procedure)
Figure 1 dated 13 October 2006

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

TECHNICAL SCHEDULE No S469

Pattern: Revere Transducers Model DSC Load Cell

Submittor: Scale Components Pty Ltd
288 Musgrave Road
Coopers Plains QLD 4108

1. Description of Pattern

A Revere Transducers model DSC digital load cell of 30 000 kg maximum capacity (Figure 1 and Tables 1 to 4).

These load cells shall only be used with indicators which are approved for use with compatible Revere Transducers digital load cells.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 1.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Revere Transducers
Model number	DSC
Additional marking	…….. (#)
Maximum capacity	…….. kg (or t)
Serial number	……..
Pattern approval mark	S469

(#) Refer to Tables 2 to 4.

1.3 Table of Specifications

Specifications for the pattern are given in Tables 1 to 4.

2. Description of Variant 1

Load cells of other capacities and characteristics as shown in Tables 1 to 4.

TABLE 1

Common characteristics (see additional Tables below for specific models)	
Type: Revere Transducers model DSC	
Class	C
Output rating (resolution)	240 000 counts at Emax (approx)
Supply voltage (DC)	12.5 to 18 V
Communication	RS485 or RS422
Cable length	20 m (*)
Junction box	Revere model JB4 or JB8 (The submittor should be consulted regarding the acceptability of alternative junction box arrangements.)
Digital indicator	Indicators approved as suitable for use with compatible Revere Transducers digital load cells
Apportionment factor, pLC	0.8

(*) The load cell is provided with a 20 m long cable having 6 wires plus shield. Cable lengths may be extended up to a maximum total system cable length of 1200 m.

TABLE 2

Type: Revere Transducers Europe DSC				
Additional marking	C1	C2	C3	C4
Maximum number of verification intervals	1000	2000	3000	4000
Maximum capacity, Emax (kg)	30 000	30 000	30 000	30 000
Minimum value of verification interval, vmin (kg)	15.00	7.50	5.00	3.75
Minimum dead load output return value, DR (kg)	15.00	7.50	5.00	3.75
Maximum capacity, Emax (kg)	40 000	40 000	40 000	40 000
Minimum value of verification interval, vmin (kg)	20.00	10.00	6.67	5.00
Minimum dead load output return value, DR (kg)	20.00	10.00	6.67	5.00
Maximum capacity, Emax (kg)	50 000	50 000	50 000	50 000
Minimum value of verification interval, vmin (kg)	25.00	12.50	8.33	6.25
Minimum dead load output return value, DR (kg)	25.00	12.50	8.33	6.25
Maximum capacity, Emax (kg)	60 000	60 000	60 000	60 000
Minimum value of verification interval, vmin (kg)	30.00	15.00	10.00	7.50
Minimum dead load output return value, DR (kg)	30.00	15.00	10.00	7.50
Maximum capacity, Emax (kg)	10 0000	10 0000	10 0000	10 0000
Minimum value of verification interval, vmin (kg)	50.00	25.00	16.67	12.50
Minimum dead load output return value, DR (kg)	50.00	25.00	16.67	12.50

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TABLE 3

Type: Revere Transducers Europe DSC			
Additional marking	C2MR	C3MR	C4MR
Maximum number of verification intervals	2000	3000	4000
Maximum capacity, Emax (kg)	30 000	30 000	30 000
Minimum value of verification interval, vmin (kg)	5.00	3.00	1.50
Minimum dead load output return value, DR (kg)	7.50	5.00	3.75
Maximum capacity, Emax (kg)	40 000	40 000	40 000
Minimum value of verification interval, vmin (kg)	6.67	4.00	2.00
Minimum dead load output return value, DR (kg)	10.00	6.67	5.00
Maximum capacity, Emax (kg)	50 000	50 000	50 000
Minimum value of verification interval, vmin (kg)	8.33	5.00	2.50
Minimum dead load output return value, DR (kg)	12.50	8.33	6.25
Maximum capacity, Emax (kg)	60 000	60 000	60 000
Minimum value of verification interval, vmin (kg)	10.00	6.00	3.00
Minimum dead load output return value, DR (kg)	15.00	10.00	7.50
Maximum capacity, Emax (kg)	10 0000	10 0000	10 0000
Minimum value of verification interval, vmin (kg)	16.67	10.00	5.00
Minimum dead load output return value, DR (kg)	25.00	16.67	12.50

TABLE 4

Type: Revere Transducers Europe DSC			
Additional marking	C2MI7,5	C3MI7,5	C4MI7,5
Maximum number of verification intervals	2000	3000	4000
Maximum capacity, Emax (kg)	30 000	30 000	30 000
Minimum value of verification interval, vmin (kg)	7.50	5.00	3.75
Minimum dead load output return value, DR (kg)	2.00	2.00	2.00
Maximum capacity, Emax (kg)	40 000	40 000	40 000
Minimum value of verification interval, vmin (kg)	10.00	6.67	5.00
Minimum dead load output return value, DR (kg)	2.67	2.67	2.67
Maximum capacity, Emax (kg)	50 000	50 000	50 000
Minimum value of verification interval, vmin (kg)	12.50	8.33	6.25
Minimum dead load output return value, DR (kg)	3.33	3.33	3.33
Maximum capacity, Emax (kg)	60 000	60 000	60 000
Minimum value of verification interval, vmin (kg)	15.00	10.00	7.50
Minimum dead load output return value, DR (kg)	4.00	4.00	4.00
Maximum capacity, Emax (kg)	10 0000	10 0000	10 0000
Minimum value of verification interval, vmin (kg)	25.00	16.67	12.50
Minimum dead load output return value, DR (kg)	6.67	6.67	6.67

FIGURE S469 – 1

Revere Transducers Model DSC Load Cell