



**Australian Government**  
**National Measurement  
Institute**

Bradfield Road, West Lindfield NSW 2070

**Cancellation**  
**Supplementary Certificate of Approval**  
**No S347**

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

SCHENCK Process Model RTN 33T C3 Load Cell

submitted by       SCHENCK Process GmbH  
                          c/o Schenck Australia Pty Ltd  
                          Unit 1, 47 Epping Road  
                          North Ryde    NSW    2113

has been cancelled in respect of new instruments as from 1 January 2009.

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, appearing to be 'J. G. T.', written in a cursive style.



**Australian Government**  

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**National Measurement  
Institute**

12 Lyonpark Road, North Ryde NSW 2113

**Supplementary Certificate of Approval**  
**No S347**

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

SCHENCK Process Model RTN 33T C3 Load Cell

submitted by SCHENCK Process GmbH  
c/o Schenck Australia Pty Ltd  
now of Unit 1, 47 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.

**CONDITIONS OF APPROVAL**

This approval becomes subject to review on 1 November 2007, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NSC S347' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NSC S347' 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 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.

#### DESCRIPTIVE ADVICE

**Pattern:** approved 2 October 1997  
re-approved 22 July 1998

- A SCHENCK Process model RTN 33t C3 load cell of 33 000 kg maximum capacity. May also be known as an Avery Berkel model RTN 33t C3.

**Variants:** approved 2 October 1997  
re-approved 22 July 1998

1. Model RTN 22t C3 load cell of 22 000 kg maximum capacity.

**Variants:** approved 8 December 1997  
re-approved 22 July 1998

2. Certain other models and capacities as listed in Table 1.

Technical Schedule No S347 describes the pattern and variants 1 & 2.

**Variants:** approved 10 June 2004

3. Certain other models and capacities as listed in Tables 2 to 4.

Technical Schedule No S347 Variation No 1 describes variant 3.

#### FILING ADVICE

Supplementary Certificate of Approval No S347 dated 22 October 1998 is superseded by this Certificate, and may be destroyed. The documentation for this approval now comprises:

Supplementary Certificate of Approval No S347 dated 29 April 2005  
Technical Schedule No S347 dated 22 October 1998 (incl. Table 1)  
Technical Schedule No S347 Variation No 1 dated 29 April 2005 (incl. Notification of Change and Tables 2 to 4)  
Notification of Change No 1 dated 28 February 2003  
Figures 1 to 4 dated 22 October 1998

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 S347

**Pattern:** SCHENCK Process Model RTN 33t C3 Load Cell.

**Submittor:** SCHENCK Process GmbH  
c/o Schenck Australia Pty Ltd  
2-4 Harbord Street  
Granville NSW 2142.

### 1. Description of Pattern

A SCHENCK Process model RTN 33t C3 load cell of 33 000 kg maximum capacity (Figure 1 and Table 1) approved for use with up to 3 000 verification scale intervals. The load cell may also be known as an Avery Berkel model RTN 33t C3.

#### 1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figures 2 to 4.

#### 1.2 Markings

Each load cell is marked with the following, in the form shown at right:

Manufacturer's mark, or name written in full	SCHENCK
Model number	.....
Serial number	.....
Pattern approval mark	NSC No S347
Maximum capacity	$E_{max}$ 33 000 kg

#### 1.3 Table of Specifications

Specifications for the pattern are given in table 1.

### 2. Description of Variants

#### 2.1 Variant 1

A SCHENCK Process model RTN 22t C3 load cell of 22 000 kg maximum capacity having specifications as listed in Table 1.

#### 2.2 Variant 2

Certain other models and capacities as listed in Table 1.

TABLE 1

	Schenck Process GmbH				
Type:	RTN 22t C3	RTN 33t C3	RTN 47t C3	RTN 68t C3	RTN 100t C3
Maximum capacity:	22 000 kg	33 000 kg	47 000 kg	68 000 kg	100 000 kg
Maximum number of verification scale intervals:	3000	3000	3000	3000	3000
Minimum value of verification scale interval:	1.8 kg	2.7 kg	3.85 kg	5.56 kg	8.18 kg
Minimum dead load output return (DR):	1.46 kg	2.2 kg	3.13 kg	4.53 kg	6.66 kg
Output rating (nominal):	2.85 mV/V	2.85 mV/V	2.85 mV/V	2.85mV/V	2.85mV/V
Input impedance (nominal):	4480 Ω	4480 Ω	4480Ω	4480Ω	4480Ω
Supply voltage (AC or DC):	5 - 30 V	5 - 30 V	5 - 30V	5 - 30V	5 - 30V
Cable length (±0.1 m):	15 m	15 m	15 m	15 m	15 m
Number of leads (plus shield):	4	4	4	4	4

TECHNICAL SCHEDULE No S347

VARIATION No 1

**Pattern:** SCHENCK Process Model RTN 33T C3 Load Cell

**Submittor:** SCHENCK Process GmbH  
c/o Schenck Australia Pty Ltd  
Unit 1, 47 Epping Road  
North Ryde NSW 2113

**1. Description of Variant 3**

Certain other models and capacities of the SCHENCK Process RTN C3, C4MI 7.5 and C5 series as listed in Tables 2, 3 and 4.

NOTIFICATION OF CHANGE

In Technical Schedule No S347 dated 22 October 1998, the address of the submittor should be amended to read:

“Unit 1, 47 Epping Road  
North Ryde NSW 2113”

TABLE 2

Type: SCHENCK Process RTN C3 Series, in models RTN # C3 where # is the value listed below:

Model #:		1t	2.2t	4.7t
Maximum capacity, $E_{max}$	kg	1000	2200	4700
Accuracy class		C	C	C
Maximum number of verification intervals		3000	3000	3000
Minimum value of verification interval, $v_{min}$	kg	0.05	0.11	0.235
Minimum dead load output return value (DR)	kg	0.16	0.352	0.752
Output rating (nominal)	mV/V	2.85	2.85	2.85
Input impedance (nominal)	ohm	4480	4480	4480
Supply voltage (DC/AC)	V	5–30	5–30	5–30
Cable length ( $\pm 0.1$ m)	m	5	5	5
Number of leads (plus shield)		4	4	4

TABLE 3

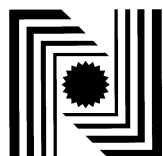
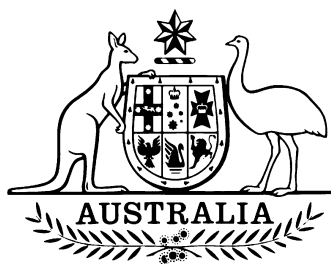
Type: SCHENCK Process RTN C4 Series, in models RTN # C4MI 7.5 where # is the value listed below:

Model #:		1t	2.2t	4.7t
Maximum capacity, $E_{max}$	kg	1000	2200	4700
Accuracy class		C	C	C
Maximum number of verification intervals		4000	4000	4000
Minimum value of verification interval, $V_{min}$	kg	0.042	0.092	0.196
Minimum dead load output return value (DR)	kg	0.067	0.147	0.313
Output rating (nominal)	mV/V	2.85	2.85	2.85
Input impedance (nominal)	ohm	4480	4480	4480
Supply voltage (DC/AC)	V	5–30	5–30	5–30
Cable length ( $\pm 0.1$ m)	m	5	5	5
Number of leads (plus shield)		4	4	4

TABLE 4

Type: SCHENCK Process RTN C5 Series, in models RTN # C5 where # is the value listed below:

Model #:		1t	2.2t	4.7t
Maximum capacity, $E_{max}$	kg	1000	2200	4700
Accuracy class		C	C	C
Maximum number of verification intervals		5000	5000	5000
Minimum value of verification interval, $V_{min}$	kg	0.042	0.092	0.196
Minimum dead load output return value (DR)	kg	0.10	0.22	0.47
Output rating (nominal)	mV/V	2.85	2.85	2.85
Input impedance (nominal)	ohm	4480	4480	4480
Supply voltage (DC/AC)	V	5–30	5–30	5–30
Cable length ( $\pm 0.1$ m)	m	5	5	5
Number of leads (plus shield)		4	4	4



## National Standards Commission

12 Lyonpark Road, North Ryde NSW

### Notification of Change

### Supplementary Certificate of Approval No S347

### Change No 1

The following changes are made to the approval documentation for the

SCHENCK Process Model RTN 33t C3 Load Cell

submitted by SCHENCK Process GmbH  
c/o Schenck Australia Pty Ltd  
now of 4/43-51 College Street  
Gladesville NSW 2111.

1. In Supplementary Certificate of Approval No S347 dated 22 October 1998, the Condition of Approval referring to the review of the approval should be amended to read:  
  
"This approval becomes subject to review on 1 November 2007, and then every 5 years thereafter."
2. In Supplementary Certificate of Approval No S347 and its Technical Schedule both dated 22 October 1998, the address of the submitter should be amended to read:

"4/43-51 College Street  
Gladesville NSW 2111"

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.



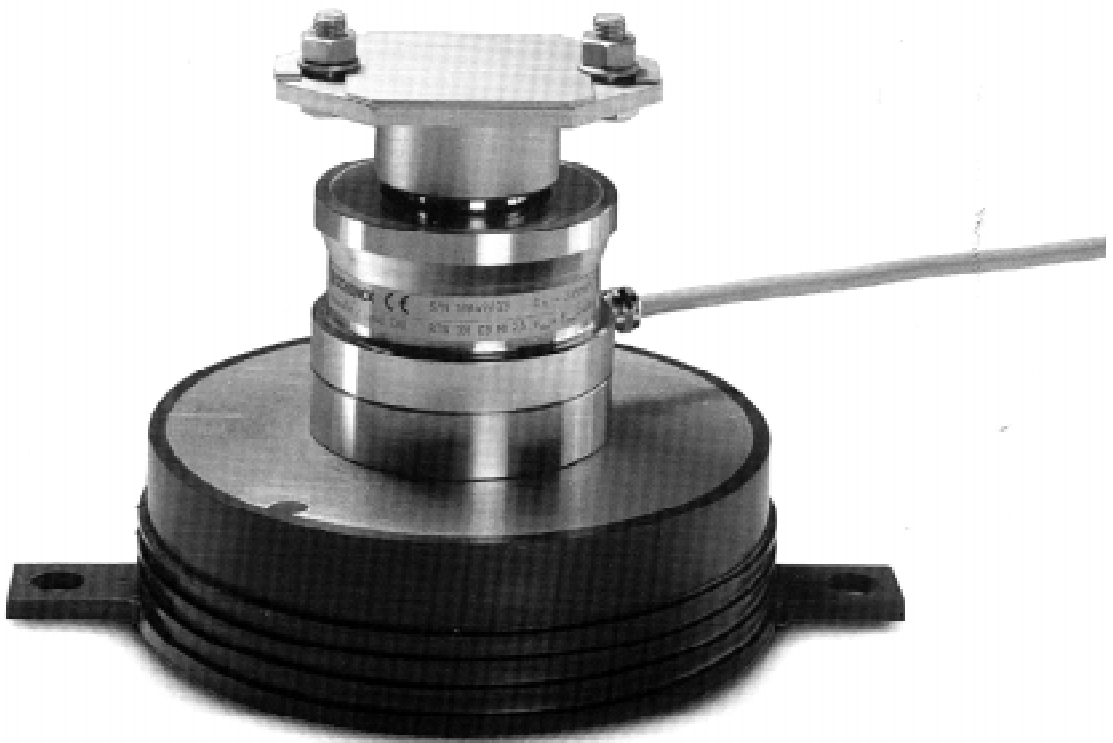


FIGURE S347 - 1



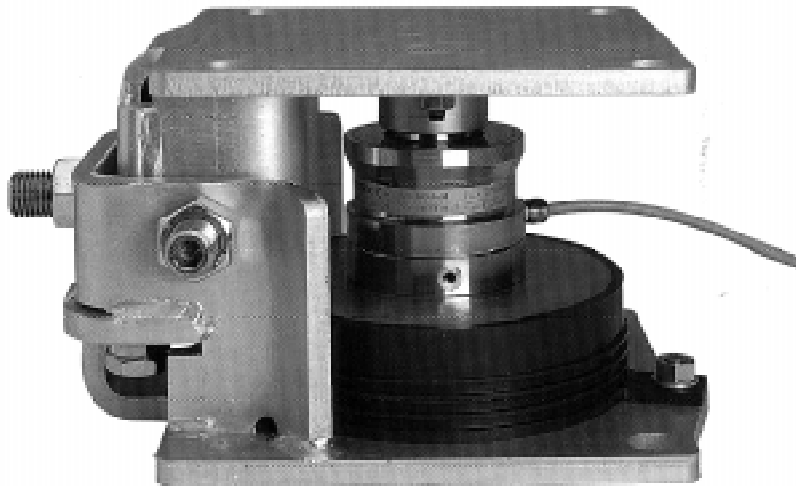
SCHENCK Process RTN C3 Series Load Cells

FIGURE S347 - 2



Approved Mounting Method

FIGURE S347 - 3



Alternative Mounting Method

FIGURE S347 - 4



Alternative Mounting Method