



Australian Government  
Department of Industry,  
Innovation and Science

## National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

### Supplementary Certificate of Approval

### NMI S780

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.

Precia-Molen Model SCL MB Load Cell

submitted by        Precia SA  
                              BP 106  
                              07000 Privas  
                              FRANCE.

**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 1/06/24, and then every 5 years thereafter.

#### DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variants 1 to 2 approved – certificate issued	2/05/19

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S780' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S780' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

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 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*.



**Darryl Hines**  
Manager  
Pattern Approval, Policy and  
Licensing Section

TECHNICAL SCHEDULE No S780

**1. Description of Pattern** **approved on 2/05/19**

A Precia-Molen model SCL MB compression load cell of 35 000 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 3500 verification scale intervals.

**1.1 Method of Mounting**

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

**1.2 Markings**

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Precia-Molen
Model number	.....
Maximum capacity, $E_{max}$	..... kg (or t)
Serial number	.....
Pattern approval mark	NMI S780

**1.3 Table of Specifications**

Specifications for the pattern are given in Table 1.

**2. Description of Variant 1** **approved on 2/05/19**

Certain other capacities and characteristics of the Precia-Molen SCL MB series as listed in Table 1.

TABLE 1

$E_{max}$ (kg)	35 000	55 000
Class	C	C
nLC	3500	3500
$V_{min}$ (kg)	1.5	2.36
DR (kg)	1.35	2.12
mV/V	2	
Input imp ( $\Omega$ )	1200	
Voltage (V)	5 - 20	
Cable length (m)	20	
Number of leads (plus shield)	4	

**3. Description of Variant 2** **approved on 2/05/19**

Certain capacities and characteristics of the Precia-Molen SCL series as listed in Table 2.

TABLE 2

$E_{max}$ (kg)	35 000	55 000
Class	C	C
nLC	3500	3500
$V_{min}$ (kg)	3	4.71
DR (kg)	1.35	2.12
mV/V	2	
Input imp ( $\Omega$ )	1200	
Voltage (V)	5 - 20	
Cable length (m)	15	
Number of leads (plus shield)	4	

Where:

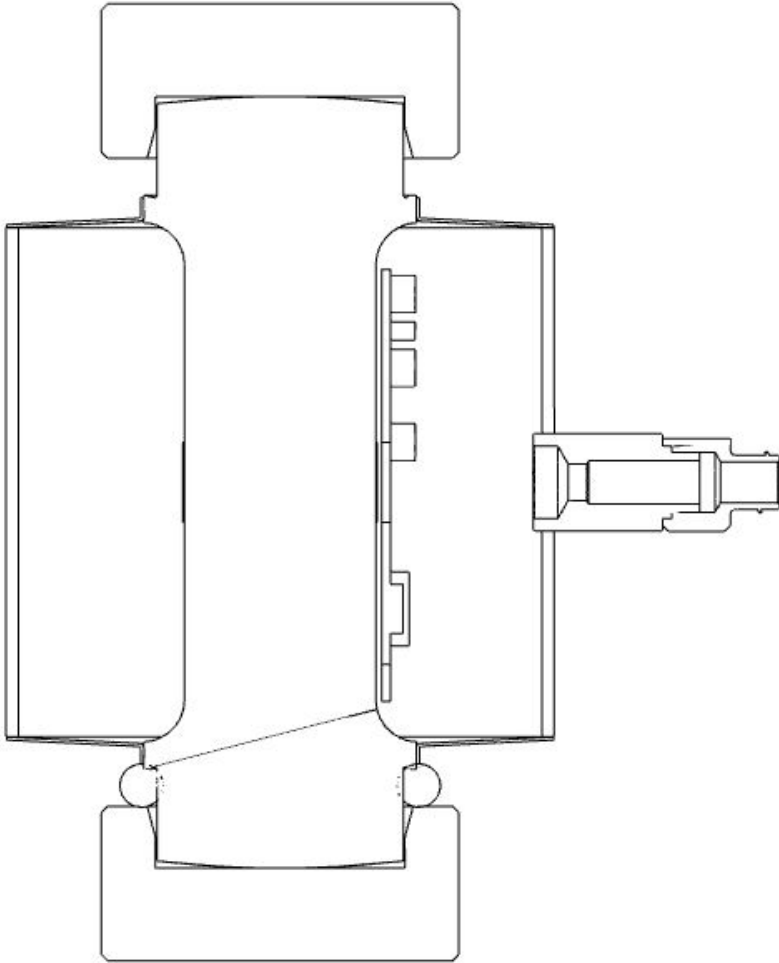
$E_{max}$	=	Maximum capacity
nLC	=	Maximum number of verification intervals
$V_{min}$	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (AC/DC)

FIGURE S780 – 1



Precia-Molen Model SCL Series Load Cell

FIGURE S780 – 2



Alternative Mounting Arrangement

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