

TEST CERTIFICATE

No. DK 0199.R60-2002.1

Issued by DELTA Danish Electronics, Light & Acoustics,
EU - Notified Body No. 0199

In accordance with EN 45501 (1992), paragraph 8.1 and 3.5.4
with fraction $p_{LC} = 0.8$.
OIML R60 (Edition 2000)

Issued to **Eilersen Electric A/S**
Kokkedal Industripark 4
DK-2980 Kokkedal
Denmark

In respect of A digital load cell made from stainless steel,
hermetically sealed

Type SDM

Manufacturer **Eilersen Electric A/S**
Kokkedal Industripark 4
DK-2980 Kokkedal
Denmark

Description and documentation The load cell is described and documented - including
a summary of the tests - in the Annex which forms part
of this test certificate

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Characteristics

Accuracy classes		C3	C5
Maximum number of LC intervals	n_{max}	3000	5000
Type		SDM C3	SDM C5
Rated capacity	E_{max}	1400-7000 kg	
Minimum verification interval	v_{min}	0.0025 [% E_{max}]	0.005 [% E_{max}]
Minimum dead load output return	DR	0.0105 [% E_{max}]	0.005 [% E_{max}]
Safe overload		400 % E_{max}	
Temperature limits		+ 40 °C / - 10 °C	

The ANNEX comprises 2 pages.

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Signatory : 
P. Bengtsen



ANNEX to Test Certificate No. DK 0199.R60-2002.1

NAME AND TYPE OF THE LOAD CELL

The load cell is designated SDM.

1. Technical data

Table 1: Further essential technical data

Minimum dead load, relative	E_{min} / E_{max}	0	
Excitation voltage		24 +/- 20%	Vdc
Rated output (number of counts for E_{max})		Programmable	
Humidity rating	CH	93	%RH

2. Tests

The tests listed in table 2 below have been carried out in accordance with OIML R60, edition 2000 by DELTA.

Report no. DANAK-195971 (SDM), DANAK-194830 (EMC) and DANAK-194987 (humidity).

Table 2. Tests carried out on two load cells as follows:

Type: SDM C3 and SDM C5
 Serial no.: 0034 and 0037
 Emax: 1400 kg
 Class: C3 and C5
 n_{LC}: 3000 and 5000

Tests	Ref: R 60-2000	Passed / Failed
Temperature test and repeatability (at 20, 40, -10 and 20 °C)	5.1.11 & 5.4 & A.4.1.4-15 & A.4.1.2	Passed
Temperature effect on minimum load output (at 20, 40, -10 and 20 °C)	5.5.1.3 & A.4.1.4, A.4.1.5-10, A.4.1.15	Passed
Creep during 30 minutes (at 20, 40, -10 °C)	5.3.1 & A.4.2	Passed
Minimum dead load output return (at 20, 40, -10 °C)	5.3.1 & A.4.3 and 5	Passed
Barometric pressure effects at room temp.	5.5.2 & A.4.4	Test waived because of the hermetic sealed principle
Humidity test (CH)	5.5.3.1 & A.4.5	Passed
Warm-up test	A.4.7.2	Passed
Power voltage variation	A.4.7.3	Passed
EMC tests	A.4.7.5-8	Passed
Span stability test	6.3.2 & A.4.7.8	Passed

ANNEX to Test Certificate No. DK 0199.R60.1/2

3. Description of the load cell

Construction principle

The load cell is fabricated from stainless steel and constructed on the principle of a beam. It is provided with a capacity measuring circuit into a welded housing. It is designed for mounting horizontally between two parallel surfaces.

The load cell is provided with a screened cable, 4 m long (standard).

The load cell is hermetically sealed.

Markings

The rating plate of the load cell contains the manufacturer's name, type, E_{max} , serial number, and classification symbol. The markings shall satisfy OIML R60.

Additional information according to R60 point 4.7 will be supplied in an accompanying document (Data sheet).

Drawings and descriptions

Drawing / description SDM

Drawing / specification MCE9610

Drawing / specification MCE9640

4. Documentation

The test reports, test results and documentation are held by the Notified Body.

5. Validity of this Test Certificate

Manufacturing process, material and sealings of the produced load cells have to be in accordance with that of the tested pattern; essential changings are only allowed with the permission of the Notified Body.