

SCC SMART COMPRESSION CELL



DESCRIPTION:

The SCC, Smart Compression Cell is a multi-column, low profile, stainless steel, compression load cell with a digital output signal.

This digital output enables the user to communicate with each SCC independently of the others in the system, thus offering advantages in system setup, system control, corner correction, fault finding and load cell replacement.

Suitable applications for this product include various types of road and rail weighbridges, and process weighing.

This product meets the stringent Weights and Measures requirements throughout Europe.

FEATURES:

- Digital output via RS485 or RS422 interface
- Low profile, multi-column, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, **4000d**
- Internal diagnostics
- Internal lightning protection
- 240,000 counts resolution
- Maximum transmission distance 1200m
- **CAPACITIES: 10 → 100 t**

SCC: SPECIFICATIONS

Standard Capacities ($\pm E_{max}$)	t	10, 25, 40, 60, 100 ²			
Accuracy Class According to OIML R-60		CC	C2	C3	C4
Max. Number of Verification Intervals (n_{ic})			2000	3000	4000
Minimum Verification Interval (V_{min})			$E_{max}/10000$	$E_{max}/10000$	$E_{max}/10000$
Minimum Verification Interval Type MR				$E_{max}/20000$	$E_{max}/20000$
Combined Error	%S	$\leq \pm 0.0500$	$\leq \pm 0.0230$	$\leq \pm 0.0200$	$\leq \pm 0.0173$
Non-Repeatability	%S	$\leq \pm 0.0200$	$\leq \pm 0.0100$	$\leq \pm 0.0100$	$\leq \pm 0.0090$
Minimum Dead Load Output Return ¹	%S	$\leq \pm 0.0500$	$\leq \pm 0.0250$	$\leq \pm 0.0167$	$\leq \pm 0.0125$
Creep Error (30 Minutes) ¹	%S	$\leq \pm 0.0600$	$\leq \pm 0.0245$	$\leq \pm 0.0245$	$\leq \pm 0.0184$
Creep Error (20-30 Minutes) ¹	%S	$\leq \pm 0.0200$	$\leq \pm 0.0053$	$\leq \pm 0.0053$	$\leq \pm 0.0039$
Temp. Effect on Min. Dead Load Output	%S/5°C	$\leq \pm 0.0250$	$\leq \pm 0.0070$	$\leq \pm 0.0070$	$\leq \pm 0.0070$
Temp. Effect on Min. Dead Load Output MR	%S/5°C			$\leq \pm 0.0035$	$\leq \pm 0.0035$
Temp. Effect on Sensitivity	%S/5°C	$\leq \pm 0.0250$	$\leq \pm 0.006$	$\leq \pm 0.0050$	$\leq \pm 0.0040$
Minimum Deadload	% E_{max}	0			
Maximum Safe Overload	% E_{max}	150			
Ultimate Overload	% E_{max}	400			
Maximum Safe Sideload	% E_{max}	10			
Deflection at E_{max}	mm	0.36 max.			
Excitation Voltage	Vdc	12.5...18.0			
Recommended Excitation Voltage	Vdc	15			
Maximum Current Consumption	mA	80			
Start-up Current	mA	150			
Rated Output	counts	240,000			
Tolerance on Rated Output	counts	$\leq \pm 200$			
Zero Balance	counts	$\leq \pm 200$			
Insulation Resistance	MΩ	≥ 5000			
Element Material (DIN)		Stainless Steel 1.4542			
Sealing (DIN40.050 / EN60.529 / IEC 529)		IP66/68			
Signal Update per Second		25			
Baudrate	bits/s	9600			
Transmission type		Asynchronous serial transmission			
Start Bits		1			
Data Bits		7			
Stop Bits		1			
Parity		Odd			
Maximum Transmission Cable Length	m	1200			
Data Transmission Interface		RS485 / RS422			
Compensated Temperature Range	°C	-10 → +40			
Operating Temperature Range	°C	-40 → +80			
Storage Temperature Range	°C	-40 → +90			

- 1 Applies for the temperature range -10 to +40 °C
 2 C1 and C2 class only

Accuracy classes C2, C3 and C4 are in agreement with OIML recommendation R-60. **Accuracy C1 is also available.** Correct mounting of the load cells is essential to ensure optimum performance.

Further information is available on request.

REVERE TRANSDUCERS EUROPE B.V.

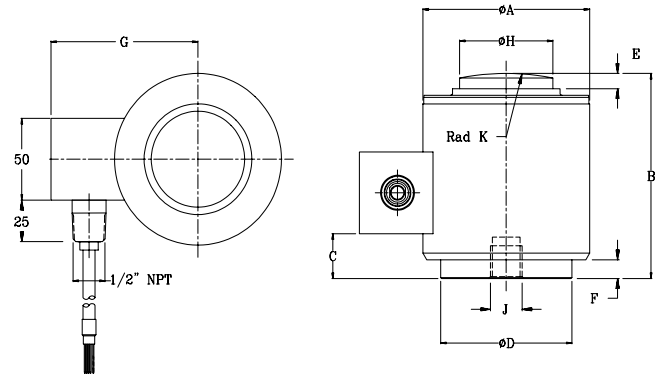
Ramshoorn 7
 Postbus 6909, 4802 HX Breda
 The Netherlands
 Tel: (+31) 76-5480700
 Fax: (+31) 76-5412854
 E-mail: info@revere.nl

REVERE TRANSDUCERS INC.

14192 Franklin Ave
 Tustin, CA 92780-7016
 U.S.A.
 Tel: (+1) 714.731.1234
 Fax: (+1) 714.731.2019
 E-mail: info@reveretransducers.com

REGIONAL OFFICE UK

The Business Centre
 Edward Street, Redditch
 Worcs B97 6HR, UK
 Tel: (+44) 152-765 888
 Fax: (+44) 152-764 888
 E-mail: alittlejohn@revere.nl



Cable specifications:

Cable length: 20m (10m for 10t version).

Excitation +	Green
Excitation -	Black
Rx +	Yellow
R-	Blue
Tx +	Red
Tx -	White
Shield	Clear

Cable screen is connected to load cell body through a capacitor.

All specifications subject to change without notice

Capacity	10,25	40,60	100
A	73.0	105.0	152.4
B	82.5	127.0	184.2
C	7.0	29.0	67.5
D	58.0	82.5	123.8
E	6.5	8.0	23.6
F	1.8	11.0	21.8
G	79.5	99.0	124.8
H	31.8	58.7	79.2
J	M12x1.75 (11 Deep)	M20x2.5 (20 Deep)	
K Rad	152.0	152.0	432.0

Attention:

Dimensions: mm.
 All dimension tolerances according to ISO 2768m, unless otherwise specified.