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**

Revere Transducers Europe
an SI Technologies company

Revere Transducers Europe

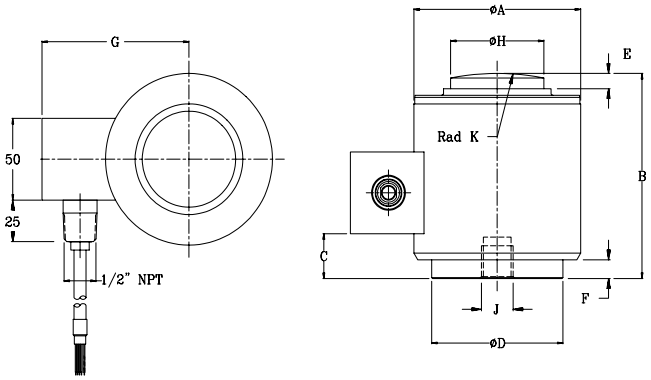
SCC: SPECIFICATIONS

Standard Capacities (=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_{lc})			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	≤± 0.0500	≤± 0.0230	≤±0.0200	≤±0.0173
Non-Repeatability	%S	≤± 0.0200	≤± 0.0100	≤±0.0100	≤±0.0090
Minimum Dead Load Output Return[1]	%S	≤± 0.0500	≤± 0.0250	≤±0.0167	≤±0.0125
Creep Error (30 Minutes)[1]	%S	≤± 0.0600	≤± 0.0245	≤±0.0245	≤±0.0184
Creep Error (20-30 Minutes)[1]	%S	≤± 0.0200	≤± 0.0053	≤±0.0053	≤±0.0039
Temp. Effect on Min. Dead Load Output	%S/5°C	≤± 0.0250	≤± 0.0070	≤±0.0070	≤±0.0070
Temp. Effect on Min. Dead Load Output MR	%S/5°C			≤±0.0035	≤±0.0035
Temp. Effect on Sensitivity	%S/5°C	≤± 0.0250	≤± 0.006	≤±0.0050	≤±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	≤± 200			
Zero Balance	counts	≤± 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.



INTERTECHNOLOGY INC.
1 Scarsdale Road, Don Mills, ON M3B 2R2
Tel: 416-445-5500, Fax: 416-445-1170
TOLL FREE: 1-800-465-1600
E-Mail: sales@intertechnology.ca
Website: www.intertechnology.com

Cable specifications:

Cable lenght : 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.