



Digital Compression Load Cell



FEATURES

- Capacities: 30, 40 and 50t
- Digital output via RS-485 or RS-422 interface
- Self-aligning, stainless steel single column
- · Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d
- · Internal diagnostics
- · Internal lightning protection
- Maximum transmission distance 1200m

OPTIONAL FEATURES

- Self-aligning mount available
- Operation manual SLC

DESCRIPTION

The DSC, Digital Single Column, is a stainless steel compression load cell with a digital output.

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

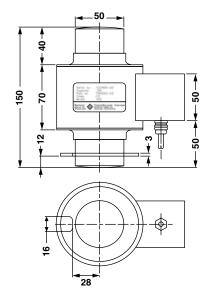
This product is suitable for use in road and rail weighbridges and process weighing applications.

The welded construction and built-in surge protection ensure that this product can be used successfully in harsh environments.

APPLICATIONS

- Weighbridges
- · Silo hopper weighing

OUTLINE DIMENSIONS in mm



Cable specifications:

Cable length: 15m

 Excitation +
 Green

 Excitation Black

 Rx +
 Yellow

 Rx Blue

 Tx +
 Red

 Tx White

 Shield
 Transparent

Document Number: 11850 Revision: 11-Dec-07



Digital Compression Load Cell

Vishay Revere

SPECIFI	CATIONS
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PARAMETER	VALUE			UNIT
Standard capacities (E _{max})	30, 40, 50			ton
Accuracy class according to OIML R-60	Non-approved	C3	C4	
Maximum no. of verfication intervals (n)		3000	4000	
Minimum verification interval (V _{min} =E _{max} /Y)		E _{max} /6,000	E _{max} /8,000	
Minimum verification interval, type MR		E _{max} /15,000	E _{max} /20,000	
Rated output (FSO)	240,000			counts
Tolerance on rated output	200			±counts
Zero balance	200			±counts
Combined error	0.0500	0.023	0.018	±% FSO
Non-repeatability	0.070	0.035	0.026	±% FSO
Minimum dead load output return	0.0500	0.017	0.013	±% FSO
Minimum dead load output return, type MI7.5	=	0.0067	0.0067	±% FSO
Creep error (30 minutes)	0.0600	0.025	0.0184	±% FSO
Creep error (20 - 30 minutes)	0.0200	0.0053	0.0039	±% FSO
Temp. effect on min. dead load output	0.0250	0.0117	0.0088	±% FSO/5°C
Temp. effect on min. dead load output MR		0.0047	0.0035	±% FSO/5°C
Temperature effect on sensitivity	0.0250	0.0088	0.0065	±% FSO/5°C
Compensated temperature range	-10 to +40			°C
Operating temperature range	-40 to +80			°C
Storage temperature range	-40 to +90			°C
Minimum dead load	0			%E _{max}
Safe dead load	150			%E _{max}
Ultimate load	300			%E _{max}
Deflection at E _{max}	0.50			mm
Excitation voltage	12.5 to 18.0			Vdc
Recommended excitation voltage	15			Vdc
Maximum current consumption	80			mA
Start up current	150			mA
Insulation resistance	>5000			MΩ
Element material (DIN)	Stainless steel 1.4542			
Sealing (DIN 40.050 / EN60.529 / IEC 529)	IP66 and IP68			
Signal update per second	25			
Baudrate	9600			Bits/s
Transmission type	Asynchronous serial transmission			
Start bits	1			
Data bits	7			
Stop bits	1			
Parity	Odd			
Maximum transmission cable length	1200			m
Data transmission interface				

Correct mounting of the load cells is essential to ensure optimum accuracy and performance. Further information is available upon request.

FSO - Full Scale Output

VISHAY TRANSDUCERS (VT) SALES OFFICES

VT Americas City of Industry, CA PH: +1-626-858-8899 FAX: +1-626-332-3418 vt.us@vishaymg.com

Breda PH: +31-76-548-0700 FAX: +31-76-541-2854 vt.nl@vishaymg.com

VT Netherlands

VMG UK Basingstoke PH: +44-125-646-2131 FAX: +44-125-647-1441 vt.uk@vishaymg.com

VMG Israel Netanya PH: +972-9-863-8888 FAX: +972-9-863-8800 vt.il@vishaymg.com VMG Germany Heilbronn PH: +49-7131-3901-260 FAX: +49-7131-3901-2666

vt.de@vishaymg.com

VT China

Tianjin

PH: +86-22-2835-3503

TianjinPH: +86-22-2835-3503
FAX: +86-22-2835-7261
vt.prc@vishaymg.com

VMG France Chartres H: +33-2-37-33-31

PH: +33-2-37-33-31-20 FAX: +33-2-37-33-31-29 vt.fr@vishaymg.com

VT Taiwan* Taipei PH: +886-2-2696-0168 FAX: +886-2-2696-4965 vt.roc@vishaymg.com *Asia except China

Document Number: 11850 Revision: 11-Dec-07

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Franca, SP (16) 3707-3619 Av. Rio Amazonas, 1560 CEP 14406-010 contato@tecnicabalancas.com.br