

## Digital Compression Load Cell

### FEATURES

- Capacities: 20, 25, 30, 35, 40 and 50 t
- Self-aligning, stainless steel single column
- Welded seal, IP66/IP68/IP69K
- Certified to OIML (25 t to 50 t)
- Built-in surge protection
- RS485/RS422 2-wire, half-duplex
- Built-in overload detection
- **Optional**
  - 4-wire, full-duplex

### APPLICATIONS

- Weighbridges
- Silo hopper weighing

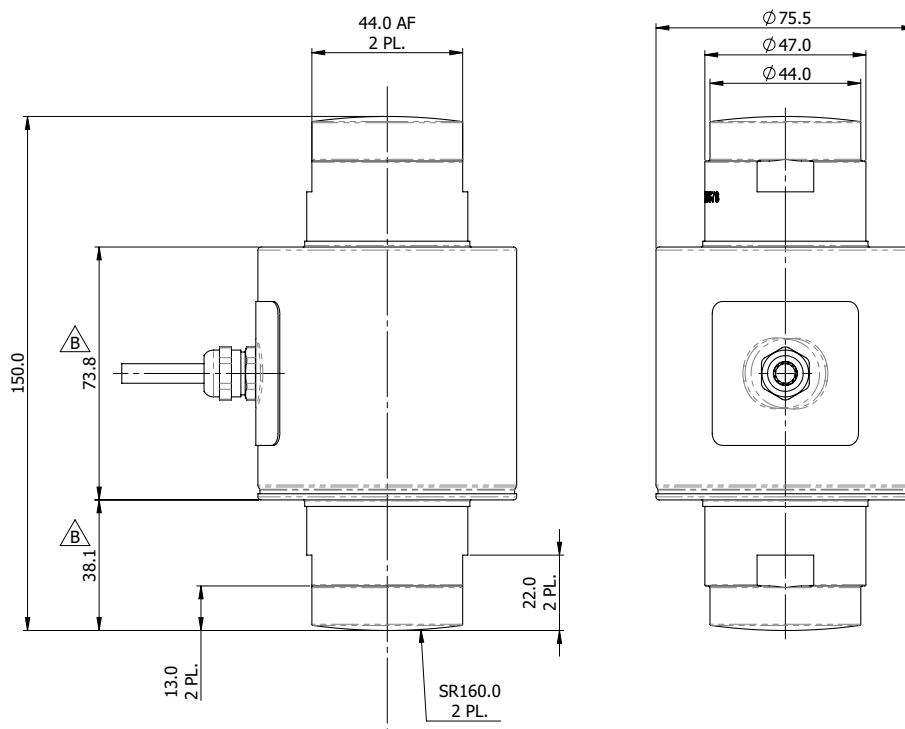
### KEY BENEFITS

- Weighing performance: up to OIML C3 with  $Y=25,000$
- High update rate: up to 200 Hz
- High resolution: 18 bit / 200,000 counts
- Protocol customization: to suit customer electronics
- PC utility: for system configuration



- Software updates: in situ—no need to remove from service
- Star topology: only one cable to connect
- Auto power supply: 8 to 24 VDC with fast warm-up time

### OUTLINE DIMENSIONS in millimeters



#### Cable Specifications

Cable length: 15m

#### Standard Half Duplex:

V In Pos	Green
V In Neg	Black
TX	Red
RX	Gray

#### Optional Full Duplex:

V In Pos	Green
V In Neg	Black
TX	Red
TX n	White
RX	Gray
RX n	Blue

Braided shield

Shield is a bare twisted braid

### Digital Compression Load Cell

SPECIFICATIONS								
PARAMETER	VALUE							UNIT
VPG Accuracy class	I3 (NTEP) <sup>1</sup>	F3	G5	G3	G2	G1	H3 <sup>2</sup>	
Minimum utilization	33	33	50	30	20	12	33	% of R.C.
NTEP Accuracy class/ nmax	IIIL/10000 Multiple							
OIML Accuracy class <sup>3</sup>		C2	C3	C3MR10	C3MR15	C3MR25	C4MR12	
Maximum no. of intervals (n)		2000	3000	3000	3000	3000	4000	
Rated capacity—R.C. (E <sub>max</sub> )	20, 30, 40, 50	20 <sup>3</sup> , 25, 30, 35, 40, 50						t
Rated output—R.O.	200,000							Counts
Rated output tolerance	Standard: 160; Optional: 30							±Counts
Zero balance	1600							±Counts
Creep (30 min.)	0.050	0.025	0.025	0.025	0.025	0.025	0.018	±% of load
Zero return (30 min.)	0.015	0.025	0.017	0.017	0.017	0.017	0.0125	±% of load
Total Error	0.030	0.030	0.020	0.020	0.020	0.020	0.015	±% of R.O.
Temperature effect on output	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.00075	±% of load/°C
Temperature effect on zero	0.0016	0.0026	0.0026	0.0016	0.0010	0.00064	0.0013	±% of R.O./°C
Y = E <sub>max</sub> /V <sub>min</sub>	30000	6000	6000	10000	15000	25000	12000	
Temp. range, compensated	-10 to +40							°C
Temp. range, safe	-40 to +70							°C
Temp. range, storage	-50 to +90							°C
Maximum safe static overload	150							% of R.C.
Ultimate static overload	300							% of R.C.
Supply, recommended	12							VDC
Supply, range	8–24							VDC
Current, max.	50							mA
Resolution	18							Bit (at 1 Hz)
Signal update per second	1/10/20/40/67/100/200							Samples/s
Baud rate	1200–115200							bits/s
Transmission type	Serial asynchronous data transmission							
Protocol type	Non-standard ASCII multi-drop							
Number of network address	32							
Data error detection	Odd/even parity, checksum							
Encryption	None/custom							
Data transmission interface	<b>Standard:</b> RS485/RS422 (2-wire, half-duplex) <b>Optional:</b> RS485/RS422 (4-wire, full-duplex)							
Cable length	<b>Standard:</b> 15 (49); <b>Max:</b> 100 (328)							m (ft)
Max. transmission cable length	1200							m
Cable type	Braided shield, 26 AWG, polyurethane jacket							
Construction	Stainless steel, welded seal							
Environmental protection	IP66/IP68 (1m@100h)/IP69K							
Outline dimensions DWG.	294.000.00-3							

<sup>1</sup> Class I3 (NTEP) is NTEP class IIIL approved.

<sup>2</sup> Class H3 is not OIML approved.

<sup>3</sup> Rated capacity 20 t is not OIML approved.

All specifications subject to change without notice.



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