



MP 56

S-Type Load Cell



60kg... 5t, Type N/C3

- Full stainless steel construction
- High resolution and linearity
- Hermetically welded seal (IP67)
- Robust and 100% maintenance free
- Approved according to OIML R60
- Ex-Version available (MP56/...E)

Applications

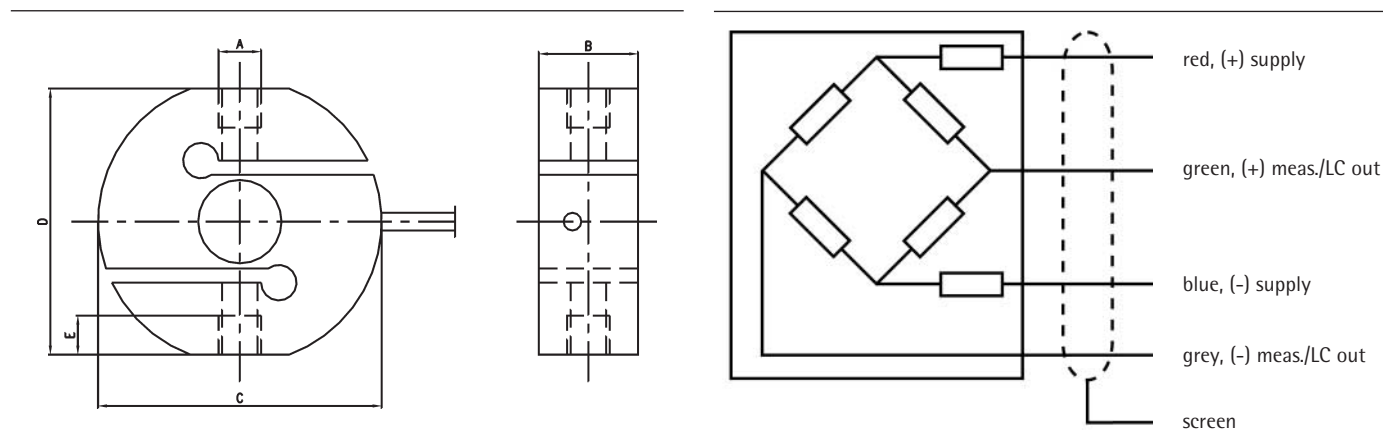
- Mechanical scale conversions
- Suspended tank and hopper scales
- Ideal for tension measurement

Technical Data		N	C3	
Accuracy class		0.03	0.02	%
Minimum dead load	E_{min}	0	0	% E_{max}
Rated capacity	E_{max}	s. table	s. table	
Safe overload	E_U	150	150	% E_{max}
Destructive load	E_d	> 300	> 300	% E_{max}
Minimum LC verification interval $v_{min} = E_{max}/Y$		-	8,333	
Rated output	C_n	2	2	mV/V
Tolerance on rated output	d_c	≤ 0.25	≤ 0.25	% C_n
Zero output signal	S_{min}	≤ 1	≤ 1	% C_n
Repeatability	ϵ_R	≤ 0.01	≤ 0.01	% C_n
Creep, during 30min.	d_{cr}	≤ 0.03	≤ 0.017	% C_n
Temperature effect on S_{min}	TK_0	≤ 0.028	≤ 0.017	% $C_n/10K$
Temperature effect on C	TK_c	≤ 0.025	≤ 0.011	% $C_n/10K$
Input impedance	R_{iC}	400 ± 50	400 ± 50	Ω
Output impedance	R_o	352 ± 3	352 ± 3	Ω
Insulation impedance	R_{iS}	> 2,000	> 2,000	M Ω
Recommended supply voltage	B_u	10	10	V
Maximum supply voltage	U_{max}	20	20	V

Technical Data

		N	C3	
Nominal ambient temperature range	B_T	-10 to +40	-10 to +40	° C
Usable ambient temperature range	B_{TU}	-30 to +70	-30 to +70	° C
Nominal deflection	S_{nom}	≤ 0.3	≤ 0.3	mm
Cable	-	5m, 4 wires with screen	5m, 4 wires with screen	
Protection class	-	IP 67	IP 67	

The technical data given here serve only as a product description and must not be interpreted as guaranteed characteristics in the legal sense.



Dimensions in mm

Capacity	A	B	C	D	E	Nominal Deflection	Weight
60kg to 500kg	M12 x 1.75	28	80	75	15	≤ 0.2mm	1kg
1t	M20 x 1.5	28	80	75	15	≤ 0.3mm	1kg
2t	M20 x 1.5	28	95	90	15	≤ 0.3mm	1.5kg
3t, 5t	M20 x 1.5	28	125	120	20	≤ 0.3mm	2.5kg

Accessories

Type	Description	Order number
MP46/81	swivel eye for MP56/60kg... MP56/500kg	9408 800 46811
MP46/82	swivel eye for MP56/1t... MP56/5t	9408 800 46821

Order information

Type	Order number	Type	Order number	Rated capacity (2mv/V)
MP56/60kg C3	9408 256 03060	MP56/60kg N	9408 256 01060	60kg
MP56/125kg C3	9408 256 03112	MP56/125kg N	9408 256 01112	125kg
MP56/250kg C3	9408 256 03125	MP56/250kg N	9408 256 01125	250kg
MP56/500kg C3	9408 256 03150	MP56/500kg N	9408 256 01150	500kg
MP56/1t C3	9408 256 03210	MP56/1t N	9408 256 01210	1000kg
MP56/2t C3	9408 256 03220	MP56/2t N	9408 256 01220	2000kg
MP56/3t C3	9408 256 03230	MP56/3t N	9408 256 01230	3000kg
MP56/5t C3	9408 256 03250	MP56/5t N	9408 256 01250	5000kg

Certificate of conformity

Features: II 1D IP65 T85°, II 2D IP65 T85°
Reg. Number: TÜV 03 ATEX 2301x