



sartorius

## 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

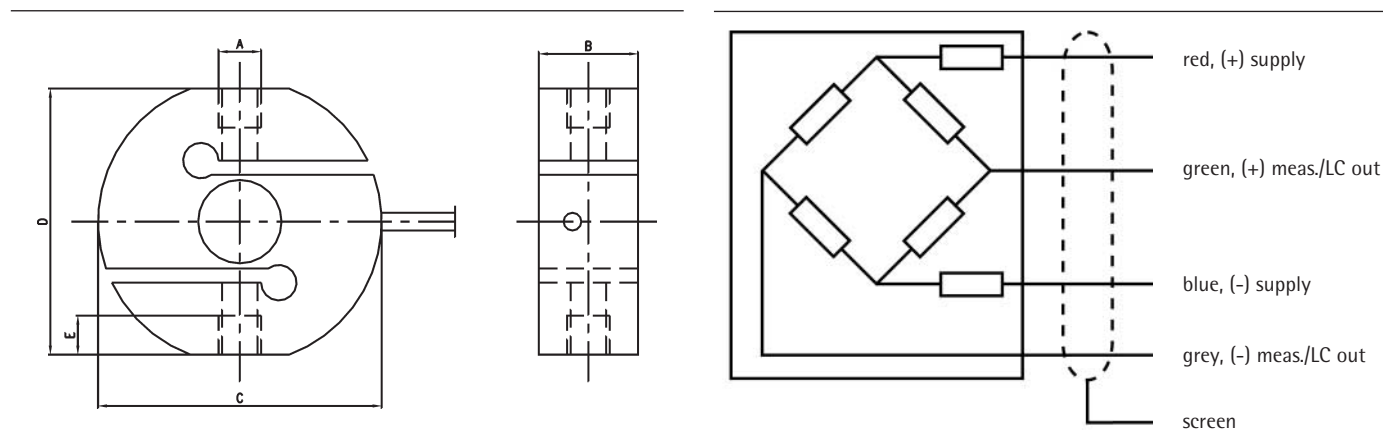
- Mechanical scale conversions
- Suspended tank and hopper scales
- Ideal for tension measurement

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	$\epsilon_R$	≤ 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	MΩ
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