



Kontrols & Industrial Weighing

MP 56

S-Type Load Cell



sartorius
mechatronics



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

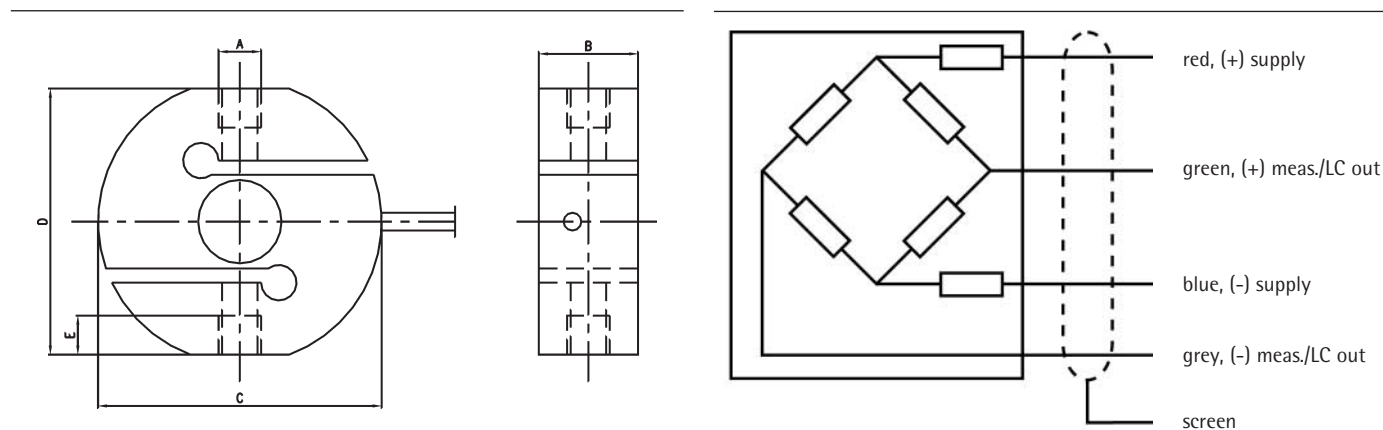
- Mechanical scale conversions
- Suspended tank and hopper scales
- Ideal for tension measurement

| 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 | 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 | $\leq 0.2\text{mm}$ | 1kg |
| 1t | M20 x 1.5 | 28 | 80 | 75 | 15 | $\leq 0.3\text{mm}$ | 1kg |
| 2t | M20 x 1.5 | 28 | 95 | 90 | 15 | $\leq 0.3\text{mm}$ | 1.5kg |
| 3t, 5t | M20 x 1.5 | 28 | 125 | 120 | 20 | $\leq 0.3\text{mm}$ | 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

Specifications subject to change
without notice.
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Please feel free to contact one of our sales consultants for further information

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