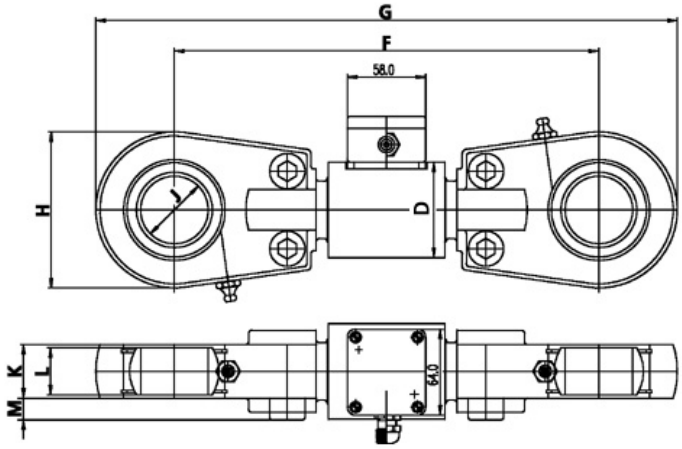
# Tension / Compression Load Cell T1

Electronic Control Systems:Sensors:Force Transducer

| | |
|---|---|
| **Product description** | |
| Type | T1 |
| Description | Tension / Compression load cell |
| Product description | The T1 Series compression/tension load cells are used to measure static and dynamic tensile and compressive forces in various applications. This stainless steel sensor generates an output signal in proportion with the load and permits application in routine industrial operations.<br>Above all, these load cells are able to satisify the operational demands upon them thanks to their compact design.<br>The measuring amplifier with voltage stabilisation for the strain gauge bridge supply voltage is housed in an air- and watertight enclosure and forms a single unit with the encapsulated measuring cell enclosure.<br>The use of high-quality electronic compenents ensures the sensor is protected against temperature fluctuations, moisture and other influences.<br>The sensor has external screw threads at both ends. According to the particular application, this allows the sensor to be furnished with the maintenan ce-free PH-Rod Ends (Cardan joint) joint heads to provide optimum force introduction for higher accuracy requirements. |
| Construction type | Sensor |
| Order No. | on request |
| **Technical data** | |
| Operating voltage | 10 ... 36 V DC |
| Current consumption | 30 mA approx. |
| Measuring range | on request |
| Overrange limit | 150 % |
| Signal output | 2,5 ... 7,5 VDC / 4 ... 20 mA |
| Class accuracy | 1 |
| Temperature comp. zero point | ±0,3% / 10K |
| Temperature comp. over range | ±0,5% / 10K |
| Electrical connection | plug or Pg connection |
| Material | rustless steel |
| **Environmental conditions** | |
| Operating temperature | -30 ... +85ºC |
| Storage temperature | -40 ... +85ºC |
| Degree of protection (IP) | IP 65 |
| Saltwater-proof | no |
| **Accessories** | |
| Options | In addition to the listed standard versions other variations are available on request, e.g explosion-proof designs needed for offshore or underground mining operations. |
| **Drawing** | |




| Capacity (t) | Dimensions (mm) | | | | | | | Rod End | Weight |
|---|---|---|---|---|---|---|---|---|---|
| | D | F | G | H | J | K | L | | |
| 1,5 | 45 | 176 | 232 | 56 | 25 | 23 | 20 | GIHR-K 25 DO | 2,10 kg |
| 2,5 | 45 | 176 | 232 | 56 | 25 | 23 | 20 | GIHR-K 25 DO | 2,11 kg |
| 4,0 | 50 | 230 | 308 | 78 | 30 | 30 | 25 | GIHR-K 35 DO | 3,08 kg |
| 6,3 | 56 | 262 | 358 | 94 | 40 | 35 | 28 | GIHR-K 40 DO | 6,10 kg |
| 10,0 | 71 | 310 | 426 | 116 | 50 | 40 | 35 | GIHR-K 50 DO | 11,18 kg |
| 16,0 | 90 | 420 | 584 | 154 | 70 | 55 | 49 | GIHR-K 70 DO | 24,39 kg |
| 25,0 | 125 | 554 | 780 | 206 | 90 | 65 | 60 | GIHR-K 90 DO | 62,24 kg |
| 40,0 | 150 | 630 | 880 | 230 | 100 | 70 | 70 | GIHR-K 100 DO | 82,44 kg |
| 63,0 | 150 | 802 | 1162 | 340 | 120 | 90 | 85 | GIHR-K 120 DO | 185,38 kg |