

CPX

CPX SERIES LOW PROFILE COMPRESSION LOAD CELLS



Stainless steel compression load cells suitable for weighing tanks and hoppers with the relevant accessories.

CAPACITIES (kg): 250, 500, 1000, 2500, 5000, 7500, 10000, 12500, 15000, 30000, 50000, 100000.

OIML R60, C3 precision class from 2500 to 12500kg.

Stainless steel. IP68/IP69K protection.

Working in cooperation with:

Vahy Robin's partner

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**The best solution
for advanced industrial
applications**

MAIN FEATURES

- CAPACITIES FROM 250 TO 100000 kg
- OIML C3 APPROVED, from 2500 to 12500 kg
- LOW PROFILE
- GREAT RESISTANCE TO LATERAL FORCES
- STAINLESS STEEL CONSTRUCTION
- IP68 PROTECTION, IP69K UPON REQUEST
- SHIELDED CONNECTION CABLE

TECHNICAL FEATURES

- Minimum load cell verification interval: $V_{min} = E_{Max} / 10000$
- Full Scale Output: $2mV/V \pm 0,5\%$
- Non-Repeatability: $0,01\%$ F.S.
- Combined Error $0,05\%$
- Temperature effect on zero: $0,02\% / 10^{\circ}C$
- Temperature effect on full scale output: $0,02\% / 10^{\circ}C$
- Compensated Temperature Range: $-10^{\circ}C/+40^{\circ}C$
- Operating Temperature Range: $-20^{\circ}C/+60^{\circ}C$
- Creep error after 30 minutes: $0,02\%$ F.S.
- Maximum tolerated excitation voltage: 15 Vdc
- Input Resistance: $750 \pm 10 \text{ Ohm}$
- Output Resistance: $700 \pm 5 \text{ Ohm}$
- Zero Balance: $\pm 1\%$ F.S.
- Insulation Resistance: $>5000 \text{ MOhm}$
- Safe Overload: 120% F.S.
- 4-wire shielded cable, 5 mm diameter:
 - 5 m long for CPX 250...5000 versions;
 - 10 m long for CPX 7500...100000 versions.

| <u>Wiring Code</u> | |
|--------------------|-----------------|
| <u>Colour</u> | <u>Function</u> |
| -- | SHIELD |
| GREEN | OUTPUT + |
| RED | INPUT + |
| WHITE | OUTPUT - |
| BLACK | INPUT - |

ATEX version

- The CCATEX certificate makes the load cell suitable for use in hazardous areas with protection methods according to:
ATEX II 1G Ex ia IIC T6 (Ta -20÷+40°C) TX (Ta -20÷+65°C) Ga
ATEX II 1D Ex ta IIIC TX°C (Ta -20÷+40°C) TX°C (Ta -20÷+65°C) Da IP65.
The certificate includes the manual and the ATEX CE conformity declaration (available in EN, DE, FR, and IT).
- The CCATEX certificate is issued after the checks done by qualified technicians, with the help of specific equipments, for each load cell.
- IMPORTANT: the certificate refers to the single load cell. For systems with more load cells, it is necessary to order one certificate for each load cell.

MAIN CERTIFICATIONS

- OIML R60
- Australian legal for trade certificate of approval (NMI S843)

VERSIONS

Available versions

| Code | Max (kg) |
|--|-------------|
| CPX250 | 250 |
| CPX500 | 500 |
| CPX1000 | 1000 |
| CPX2500  | 2500 |
| CPX5000  | 5000 |
| CPX7500  | 7500 |
| CPX10000  | 10000 |
| CPX12500  | 12500 |
| CPX15000 | 15000 |
| CPX30000 | 30000 |
| CPX50000 | 50000 |
| CPX100000 | 100000 |

NOTE: Capacities up to 1000t upon request.



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Vahy Robin's partner

SALES AND TECHNICAL ASSISTANCE SERVICE