

CPA

CPA SERIES LOW PROFILE COMPRESSION LOAD CELLS



C3

Stainless steel compression load cells suitable for extremely harsh environments and high temperatures.

CAPACITIES (kg): 150, 300, 500, 1000, 2000, 3000, 5000, 7000, 10000, 20000, 30000, 50000.

OIML R60, C3 precision class from 2000 a 10000kg.

Stainless steel. IP68 protection.

The best solution
for advanced industrial
applications

MAIN FEATURES

- CAPACITIES from 150 to 10000 kg
- OIML C3 CLASS, from 2000 to 10000 kg
- LOW PROFILE
- GREAT RESISTANCE TO LATERAL FORCES
- STAINLESS STEEL CONSTRUCTION
- IP68 PROTECTION
- SHIELDED CONNECTION CABLE UP TO 90°C

TECHNICAL FEATURES

- Minimum load cell verification interval: $V_{min} = E_{Max} / 10000$
- Full Scale Output: 2mV/V +/- 0,1% (1,3mV/V for CPA150)
- Repeatability: 0,01% F.S.
- Combined Error 0.025% E_{max} ($\leq 10t$), 0.05% E_{max} ($\geq 20t$)
- Temperature effect on zero: 0,0014% /°C
- Temperature effect on full scale output: 0,0013% /°C
- Compensated Temperature Range: -10°C/+40°C
- Operating Temperature Range: -30°C/+60°C
 - * Upon request up to 200°C
- Creep error after 4 hours: 0,03% F.S.
- Maximum tolerated excitation voltage: 15 Vdc
- Input Resistance: 1100 ± 50 Ohm
- Output Resistance: 1000 ± 10 Ohm
- Zero Balance: $\pm 2\%$ F.S.
- Insulation Resistance: >5000 MOhm
- Safe Overload: 150% F.S.
- 6-wire shielded cable, 5 mm diameter:
 - 5 m long for the versions from 150 up to 10000kg
 - 15 m long for the versions from 20000 to 50000kg

MAIN CERTIFICATIONS

- OIML R60
- Australian legal for trade certificate of approval (NMI S838)

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| Wiring Code | |
|---------------|-----------------|
| <i>Colour</i> | <i>Function</i> |
| METAL | SHIELD |
| GREEN | OUTPUT + |
| VIOLET | SENSE + |
| RED | INPUT + |
| WHITE | OUTPUT - |
| GREY | SENSE - |
| 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)
ATEX II 1D tD A20 TX°C (Ta -20÷+40°C) TX°C (Ta -20÷+65°C).
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.

VERSIONS

Available versions

| Codice | Max (kg) |
|--|----------|
| CPA150 | 150 |
| CPA300 | 300 |
| CPA500 | 500 |
| CPA1000 | 1000 |
| CPA2000  | 2000 |
| CPA3000  | 3000 |
| CPA5000  | 5000 |
| CPA7000  | 7000 |
| CPA10000  | 10000 |
| CPA20000 | 20000 |
| CPA30000 | 30000 |
| CPA50000 | 50000 |

NOTE: Capacities up to 1000t upon request.



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FRANCE sarl
France

DINI ARGEO
GMBH
Germany

DINI ARGEO
UK Ltd
United Kingdom

DINI ARGEO WEIGHING
INSTRUMENTS Ltd
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DINI ARGEO
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