

## CPH

### CPH SERIES COMPRESSION LOAD CELLS



Stainless steel compression load cells with very high load capacity, up to 1000 t.

The CPH model is designed to ensure optimum weighing performance even in the harshest environments. Ideal for load control applications in large capacity silos and to replace level indicators, ensuring greater accuracy and reliability.

---

**CAPACITIES (t):** 50, 100, 250, 500, 800, 1.000.

---

**Stainless steel. IP67** protection rating.

---

The best solution  
for advanced industrial  
applications

## MAIN FEATURES

- CAPACITIES from 50 to 1.000 t
- GREAT RESISTANCE TO LATERAL FORCES
- STAINLESS STEEL CONSTRUCTION
- IP67 PROTECTION RATING
- SHIELDED CONNECTION CABLE
- REMOVABLE HANDLES FOR TRANSPORTING THE LOAD CELL

## TECHNICAL FEATURES

- Full Scale Output:  $2\text{mV/V} \pm 1\%$
- Repeatability: 0,1% F.S.
- Temperature effect on zero: 0,0014% F.S./°C
- Temperature effect on full scale output: 0,0013% F.S./°C
- Compensated Temperature Range:  $-10^{\circ}\text{C} / +40^{\circ}\text{C}$
- Operating Temperature Range:  $-30^{\circ}\text{C} / +85^{\circ}\text{C}$
- Storage Temperature Range:  $-30^{\circ}\text{C} / +90^{\circ}\text{C}$
- Non-linearity: 0,15% F.S.
- Hysteresis: 0,15% F.S.
- Creep error after 4 hours: 0,05% F.S.
- Maximum tolerated excitation voltage: 15 Vdc
- Input Resistance (capacity from 50 to 500 t):  $1050 \pm 20 \text{ Ohm}$
- Output Resistance (capacity from 50 to 500 t):  $1050 \pm 20 \text{ Ohm}$
- Input Resistance (capacity from 800 to 1.000 t):  $1400 \pm 20 \text{ Ohm}$
- Output Resistance (capacity from 800 to 1.000 t):  $1400 \pm 20 \text{ Ohm}$
- Zero Balance:  $\pm 2\%$  F.S.
- Insulation Resistance:  $> 5.000 \text{ MOhm}$
- Safe Overload:  $> 150\%$  F.S.
- Breaking load:  $> 300\%$  F.S.
- 6-wire shielded cable, 5 mm diameter:
  - 15 m long for the versions from 50 to 500 t
  - 25 m long for the versions from 800 to 1.000 t

### Wiring Code

| <u>Colour</u> | <u>Function</u> |
|---------------|-----------------|
| --            | SHIELD          |
| GREEN         | OUTPUT +        |
| VIOLET        | SENSE +         |
| RED           | INPUT +         |
| WHITE         | OUTPUT -        |
| GREY          | SENSE -         |
| BLACK         | INPUT -         |

DETAIL 1



REMOVABLE HANDLES FOR TRANSPORTING THE LOAD CELL,  
PROVIDED AS STANDARD.

VERSIONS

| Available versions |           |
|--------------------|-----------|
| Codice             | Max (kg)  |
| CPH50              | 50.000    |
| CPH100             | 100.000   |
| CPH250             | 250.000   |
| CPH500             | 500.000   |
| CPH800             | 800.000   |
| CPH1000            | 1.000.000 |

“YOUR WORLDWIDE PARTNER FOR WEIGHING,”

**DINI ARGEO**  
**FRANCE sarl**  
France

**DINI ARGEO**  
**GMBH**  
Germany

**DINI ARGEO**  
**UK Ltd**  
United Kingdom

**DINI ARGEO WEIGHING**  
**INSTRUMENTS Ltd**  
China

**DINI ARGEO**  
**OCEANIA**  
Australia



#### COMPANY HEADQUARTERS

Via Della Fisica, 20  
41042 Spezzano di Fiorano Modena • Italy  
Tel. +39.0536 843418

#### SERVICE ASSISTANCE

Via Dell'Elettronica, 15  
41042 Spezzano di Fiorano Modena • Italy  
Tel. +39.0536 921784

SALES AND TECHNICAL ASSISTANCE SERVICE