

## RCPT

### DINI AR GEO ANALOGUE COLUMN LOAD CELL "RCPT" SERIES



**Column load cell** for CE-M approved weighbridges, tanks, silos, etc.

**CAPACITIES (kg):** 20000, 30000, 50000.

**OIML R60. C3** precision class.

Special alloy steel body with **STAINLESS** steel external casing; manufactured with laser solderings. **IP68** protection.

The best solution  
for advanced industrial  
applications

## MAIN FEATURES

- C3 PRECISION CLASS.
- SPECIAL ALLOY STEEL BODY with STAINLESS STEEL EXTERNAL CASING; MANUFACTURED WITH LASER SOLDERINGS.
- OPTIMISED FOR PARALLEL CONNECTION.
- IP68 PROTECTION RATING.
- CAPACITY FROM 20000 TO 50000 kg.
- SHIELDED 18m CONNECTION CABLE.
- TEST CERTIFICATE AVAILABLE UPON REQUEST.
- FITTED WITH SELF-ALIGNED ARTICULATED JOINTS, SELF-CENTERING PLATES AND PROTECTION WASHER (version with cups).

## TECHNICAL FEATURES

- Minimum load cell verification interval:  $V_{min} = E_{Max} / 10.000$
- Maximum number of load cell divisions:  $n_{LC} = 3000$  (C3)
- Sensitivity:  $2mV/V \pm 0,1\%$
- Temperature effect on full scale:  $0,002\% / ^\circ C$
- Temperature effect on zero:  $0,002\% / ^\circ C$
- Compensated Temperature Range:  $-10^\circ C / +40^\circ C$
- Operating Temperature Range:  $-30^\circ C / +70^\circ C$
- Creep error after 30 minutes:  $0,02\%$  F.S.
- Excitation voltage from 5 to 15 VDC
- Input Resistance:  $700 \pm 20$  Ohm
- Output Resistance:  $703 \pm 7$  Ohm
- Zero Balance:  $\pm 1\%$  F.S.
- Insulation Resistance:  $>5000$  MOhm
- Safe Overload:  $>150\%$  F.S.
- Ultimate Overload:  $250\%$  F.S.
- 4-wire shielded cable, 5mm diameter.

## 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  $-20 \div +40^\circ C$ ) TX (Ta  $-20 \div +65^\circ C$ ) Ga  
ATEX II 1D Ex ta IIIC TX $^\circ C$  (Ta  $-20 \div +40^\circ C$ ) TX $^\circ C$  (Ta  $-20 \div +65^\circ C$ ) Da IP65.  
The certificate includes the manual and the ATEX CE conformity declaration (available in EN, DE, FR, and IT).
- 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.

Wiring Code	
Colour	Function
GREEN	OUTPUT +
WHITE	OUTPUT -
RED	INPUT +
BLACK	INPUT -

### DETAIL 1



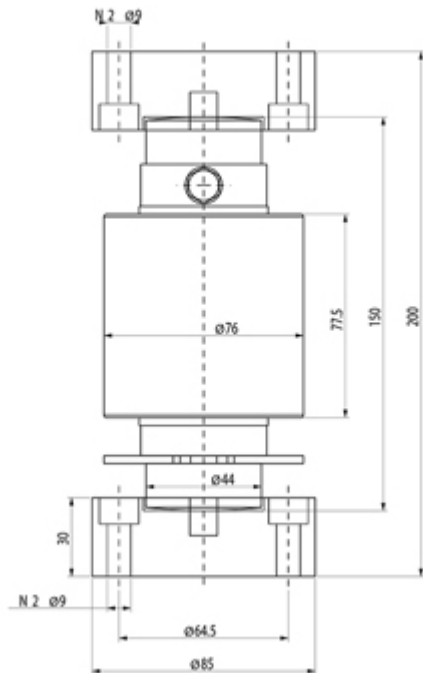
Technical drawing in mm.

### DETAIL 2



Assembly kit for RCPTx0C3NC cells.









### DETAIL 3



Technical drawing in mm with assembly kit.

## VERSIONS

### Available versions

	Codice	Max (kg)
	RCPT30C3NC 	30000
	RCPT20C3 	20000
	RCPT30C3 	30000
	RCPT50C3 	50000

NC= version without cups



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INSTRUMENTS Ltd**  
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OCEANIA**  
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