

RCPT\_OLD20180301

"RCPT" ANALOG LOAD CELL SERIES



Compression load cell for CE-M approved weighbridges, tanks, silos, etc. Completely manufactured in steel, and fitted with selfaligned articulated joints, selfcentering plates and protection washer.

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

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**OIML R60. C3** precision class.

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Internal **stainless** steel with alloy steel body.  
**IP68** protection.

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The best solution  
for advanced industrial  
applications

## MAIN FEATURES

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

## TECHNICAL FEATURES

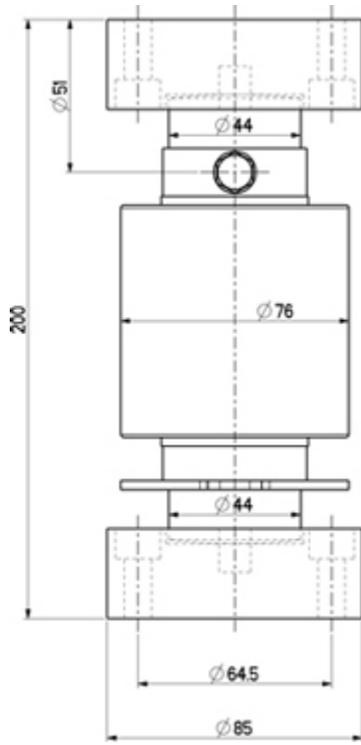
- Minimum load cell verification interval:  $V_{min} = E_{Max} / 10.000$
- Maximum number of load cell divisions:  $n_{LC} = 3000$  (C3)
- Sensitivity:  $2mV/V \pm 0,1\%$
- Temperature effect on full scale:  $0,002\% / ^\circ C$
- Temperature effect on zero:  $0,002\% / ^\circ C$
- Compensated Temperature 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, 14m long, 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



RCP: dimensions in mm.

## VERSIONS

### Available versions

	Codice	Max (kg)
	RCPT20C3 	20000
	RCPT30C3 	30000
	RCPT50C3 	50000



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INSTRUMENTS Ltd  
China

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OCEANIA  
Australia



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