

RCD SERIES

Digital Column Load Cell

LOAD CELL

QATAR : T : +974 44436750
M : +974 66257037

KSA : T : +966 13 855 5359
M : +966 53 121 8181

E-mail : info@realtechgulf.com
Website : www.realtechgulf.com

Equipments Supply & Service
REALTECHNOLOGIES
A Service



Digital version of compression load cells, ideal for CE-M approved weighbridges, tanks, silos, etc.

CAPACITIES (kg): 30000/40000/50000.

OIML R60. C4 precision class.

Load cells with stainless steel body. Degree of protection IP68.

18m armoured rodent resistant cable, with standard stainless steel armor.

Low profile height of only 130mm.

Technical Features

METROLOGICAL FEATURES

- Rated capacity (Cn): 30/40t.
- Combined error: $\pm 0.014 \%Cn$.
- Temperature effect on zero: $0.0016 \%Cn/^{\circ}C$.
- Temperature effect on sensitivity: $0.0012 \%Cn/^{\circ}C$.
- Creep error (30 min.): $0.021 \%Cn$.

LEGAL METROLOGY OIML R60

- Accuracy class: C4.
- Max. number of intervals (nmax): 4000e OIML.
- Minimum verification interval (vmin): 10000.
- $Z = Emax/(2xDR) : 4000$.

ELECTRICAL

- Nominal range of excitation voltage: 10 - 16Vdc.
- Rated output: 200000d.
- Current consumption: 35mA.
- Conversion type: Delta-sigma.
- Internal resolution: 24 bit.
- Converter rate: max. 100 conv./sec.
- RS485 interface communication rate: 4800/19200 bit/sec.
- Protection against electrostatic discharge according to IEC 61326-1.

GENERAL

- Service temperature range: $-20 \sim +60^{\circ}C$.
- Compensated temperature range: $-10 \sim +40^{\circ}C$.
- Safe load limit: 150% Emax.
- Ultimate overload: 300% Emax.
- Protection degree IP68.
- Load cells with stainless steel body.
- 6-core armoured cable, PVC sheath, 18m length, 9mm diameter.
- Nickel plated steel cable gland.
- Armoured anti rodent cable with stainless steel armour.
- Self-centring spherical bases.
- Equipped with anti-rotation system, to be combined with KRCA cups for proper operation.

Installation Kit

- The KRCA kit allows a correct installation of the RCD load cells below the weighbridge plate.
- The kit consists of an upper cup with anti-rotation system, a lower cup and a two-hole plate for easier and faster fixing.
- All components are made from nickel-plated steel.
- Both cups are designed for optimal operation in conjunction with the cell's self-centring spherical bases, allowing their proper oscillation and return to position.
- The cups are also fitted with triple function integrated washers:
 - they keep lubricating grease in its place.
 - they simplify the proper positioning and levelling of the cell and support it during installation/maintenance.
 - they protect the system by preventing dirt and water from accumulating on the bottom of the cup, thus maintaining the correct oscillation and mechanical compensation of the load cells over time.

Wiring Code

RCD cell connections	
Colour	Function
Input	
WHITE	EXC +
BROWN	EXC -
GREY	IN A +
PINK	IN B -
GREEN	OUT A +
YELLOW	OUT B -
YELLOW GREEN	SHIELD

Available Versions

Code	Max (kg)
RCD30C4	30000
RCD40C4	40000
RCD50C4	50000

