

# Load Cell Central

1-800-LOADCEL

## Model: ESP4

- Economical moment compensated load cell
- Compression
- Aluminum
- IP67 environmental protection rating
- Capacities (Kg): 0.6, 1, 3, 5, 6, 8, 10, 15, 20, 30, 35, 40, 50, 60, 80, 100, 150, 200, 300,



## Specifications:

Capacity	0.6 kg-3kg	5 kg-50 kg	60 kg-300 kg
Full scale output	1.0 mV/ V nom.	2.0 mV/ V nom.	2.0 mV/ V nom.
Combined error	<± 0.03% FSO	<± 0.02% FSO	<± 0.02% FSO
Non-linearity	<± 0.02% FSO	<± 0.02% FSO	<± 0.017% FSO
Hysteresis	<± 0.02% FSO	<± 0.02% FSO	<± 0.02% FSO
Non-repeatability	<± 0.01% FSO	<± 0.01% FSO	<± 0.01% FSO
Creep error	<± 0.02% FSO in 30 min	<± 0.017% FSO in 30 min	<± 0.017% FSO in 30 min
Zero balance	± 2.0% FSO	± 2.0% FSO	± 1.0% FSO
Compensated temperature range	-10°C - 40°C (14°F - 104°F)	-10°C - 40°C (14°F - 104°F)	-10°C - 40°C (14°F - 104°F)
Operating temperature range	-35°C - 65°C (-31°F - 149°F)	-35°C - 65°C (-31°F - 149°F)	-35°C - 65°C (-31°F - 149°F)
Temperature effect on output	≤ 0.02% FSO / 10°C (18°F)	≤ 0.018% FSO / 10°C (18°F)	≤ 0.018% FSO / 10°C (18°F)
Temperature effect on zero	≤ 0.03% FSO / 10°C (18°F)	≤ 0.02% FSO / 10°C (18°F)	≤ 0.02% FSO / 10°C (18°F)
Input resistance	394 Ω ± 6 Ω	409 Ω ± 6 Ω	406 Ω ± 6 Ω
Output resistance	350 Ω ± 3 Ω	350 Ω ± 3 Ω	350 Ω ± 3 Ω
Insulation resistance	≥ 5,000 MΩ at 50 VDC	≥ 5,000 MΩ at 50 VDC	≥ 5,000 MΩ at 50 VDC
Recommended excitation	5-12 VDC (18 VDC Maximum)	5-12 VDC (18 VDC Maximum)	5-12 VDC (18 VDC Maximum)
Cable length	432 mm (17 in)	381 mm (15 in)	2m (6.5 ft)
Safe overload	150% FS	150% FS	150% FS
Ultimate overload	300% FS	300% FS	300% FS
Material	Aluminum	Aluminum	Aluminum

## Wiring Code

+Excitation	Red
-Excitation	Black
+Signal	Green
-Signal	White
+Sense	N/A
-Sense	N/A

Load Cell Central follows a policy of continuous improvement and reserves the right to change specifications without notice. ©2011 RDR Technology, Inc.

Load Cell Central  
28175 Route 220  
Milan, PA 18831

Web: [www.800loadcel.com](http://www.800loadcel.com)  
Email: [sales@800loadcel.com](mailto:sales@800loadcel.com)

Toll Free: 1-800-562-3235  
Phone: 1-570-731-7048  
Fax: 1-570-731-7054