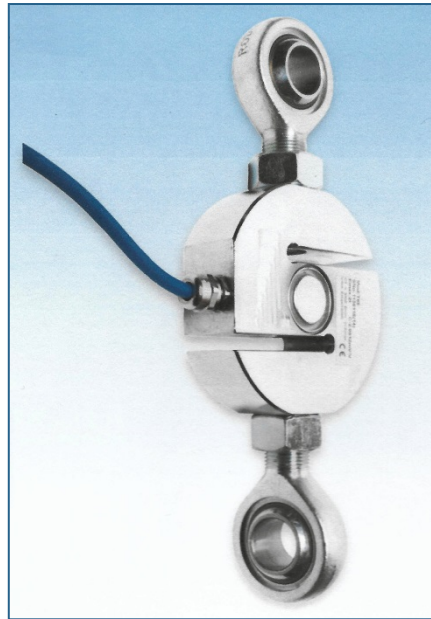




Procon Engineering

(A Division of National Oilwell Varco UK Limited)



Upper and lower rod end bearings are optional items

Type LP72 S-Type Stainless Steel Load Cell

Capacities 250kg to 7500kg

Fully welded and hermetically sealed to IP68/IP69K

**Approved to 3000 divisions (C3)
OIML R60 Class C**

Stainless steel load sensor

High durability Polyurethane cable

Optional  and high temperature versions

Suitable for use in tension, compression or a bi-directional manner

2 mV/V rationalised output

Optional rod end bearings available

The LP72 stainless steel S-type tension load cell is ideal for “commercial” weighing due to its approval to OIML R60 3000 divisions (C3). Its fully welded and hermetically sealed construction ensures total environmental protection to IP68/IP69K, coupled with excellent long-term signal stability and performance. Additionally, it is supplied with a high durability polyurethane cable and the option of rod end bearings, making it the ideal S-type load cell.

The LP72 load cell is available with optional ATEX certification for all gas and dust zones. The ATEX certification for dust zones 20, 21 and 22 does not require safety barriers, which saves substantial cost.

The optional high temperature variant for continuous operation in environments up to 150°C is also available.

For applications in aggressive environments where stress corrosion or acid attack is a potential problem, a special Parylene coating can be specified as an option.

All Procon Engineering load cells come with a 3 year warranty.

Type LP72 S-Type Stainless Steel Load Cell

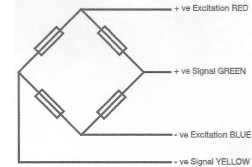
Technical Specification Sheet

Code	Temperature Class	Parameters	Application
II 1 GD	T4	Pi = 1.3W	Gas Zones 0, 1,2 With safety barriers Dust Zones 20, 21, 22 without safety barriers
Ex ia II CT4.. T6 Ga IP68 T85°C	T5	Pi = 0.8W	
Ex ia IIIC T135°C T85°C Da	T6	Pi = 0.53W	
Ex ta IIIC T85°C Da			

	Load cell specification	Units	
Load Cell Capacity (E_{max})	250, 500, 1000, 2000, 5000, 7500	kg	
Rated Output (S_n)	2.0	mV/V +/- 0.1%	
Accuracy Class	3000*	n.OIML	
Combined Error	< ±0.017	% S_n	
Non-repeatability	< ±0.015	% S_n	
Creep (30 minutes)	< ±0.016	% S_n	
Temperature Effect on Zero Balance	< ±0.002	% S_n / C	
Temperature Effect on Span	< ±0.0012	% S_n / C	
Compensated Temperature Range	-10 to +55	°C	
Operating Temperature Range	-40 to +95	°C	
Safe Service Load	150	% E_{max}	
Ultimate Load	200	% E_{max}	
Zero Balance	< ± 2.0	% S_n	
Input Resistance	400	$\Omega \pm 20$	
Output Resistance	350	$\Omega \pm 3$	
Insulation Resistance	<5000	M Ω @ 100V	
Recommended Supply Voltage	5-15	V	
Maximum Supply Voltage	15	V	
Environmental protection according to EN 60529	IP68, IP69K		
Cable length	5	m	
Cable material	Polyurethane		
Nominal Shipping Weight	250 – 500kg	1	kg
	1000 to 2000kg	2	
	5000kg	4	
	7500kg	5.5	

* For capacity range 500kg to 5000k

Capacity (kg)	250 - 500	1000 - 2000	5000	7500
A	70	95	120	120
B	37.5	50	62.5	62.5
ØC	50	60	72.5	72.5
D	M12 x 1.75P	M20 x 1.5P	M24 x 2P	M24 X 2P
E	24.5	30	40	56
ØF	75	100	125	125
G	26.9	31.2	35	35
H	15	26	30	30



Electrical Connections

Via 4 core, 5.7mm diameter, screened polyurethane cable

Screen not connected electrically to load cell

Procon Engineering's policy is one of continuous product enhancement.

We therefore reserve the right to incorporate technical modifications without prior notification. E&OE.

Issue No: 2018-01

Block 4, Units 2 & 3
Vestry Estate
Sevenoaks, Kent, TN14 5EL

Tel: 01732 781300
Fax: 01732 781311
web site: www.proconeng.com

