Strain Gauge Based Submersible

LOAD CELL

STALC3 Series



- Capacities IkN to 100kN
- Fully submersible to an external pressure of up to 70bar
- **■** Pressure Compensated Design
- Robust Construction
- **■** Simple Installation
- High Performance
- High Sideload Tolerance
- 3 YEAR WARRANTY

Options Available

Other Ranges Available on request Equivalents to other manufacturers' available Different Cable Lengths

DESCRIPTION

The STALC3 series of submersible load cells has been designed for measuring compressive loads from IkN to 50kN. The products can be fitted into new or existing triaxial chambers.

The design features an internal pressure compensation system that eliminates zero offset changes when the load cell is subjected to external pressure changes. Being insensitive to cell confining pressure, the load cell can be used inside the triaxial chamber - measuring the load from within the chamber also eliminates the effects of piston friction.

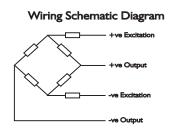
The use of specially selected heat treated stainless steel and precision strain gauges ensure optimum performance and excellent long term stability.

Transducer Specialists...





SPECIFICATION



CHARACTERISTICS	STALC3	UNITS
Rated Capacities:	1, 3, 5, 10, 25, 50, 100	kN
Rated Output:	2.0 nominal	MV/V
Non-linearity:	<0.05	±% of Full Scale
Hysteresis:	<0.1	±% of Full Scale
Temperature Range: Operating	-20 to +80	°C
Compensated	0 to 50	℃
Temperature Effect: On Output	<0.01	±% of FSO/ °C
On Zero	<0.02	±% of FSO/ °C
Safe Overload:	150	% of Rated Capacity
Ultimate Overload:	300	% of Rated Capacity
Excitation: Recommended	10	Volts AC or DC
Maximum	15	Volts AC or DC
Input Impedance:	375 nominal	Ohms
Output Impedance:	350 nominal	Ohms
Insulation Impedance:	>2000 (bridge to ground) & >1000 (shield to ground)	Megaohms
Deflection at Rated Capacity:	<0.05	mm
Weight:	0.85	kg
Construction:	Stainless Steel	
Environmental Protection:	Fully submersible to 7000kPa	
Cable:	3 Metre 4 Core Screened	

All dimensions in mm 4 core screened cable 1/8" BSP 975 M10x1,5x8DP

APPLIED MEASUREMENTS LIMITED

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