

Weld Force Sensor



FEATURES

- Single Bridge
- Sealed to IP65
- Built to order.

APPLICATIONS

- Test rigs
- Research and development

DESCRIPTION

The S-WFS is a double bending beam design load cell with a full strain gauged based wheatstone bridge. The load cell has been designed for measuring the amount of force is applied between two welding probes. Knowing this information is important to the customer so that they know that they are getting a 'good' spot weld and avoiding failures / batch rejections.

The build specification will be established during the quotation stage as there are plenty of options available.

TYPICAL SPECIFICATION

PARAMETER	VALUE	UNITS
Capacity	To suit probe	N
Rated Output	2.0 nom	mV/V
Linearity & non repeatability	Typically 0.1%	±% of Rated Output
Zero Return after 30 minutes	0.1	±% of Applied Load
Zero Balance	1.5	±% of Rated Output
Temperature Range: Operating	-10 to +50	°C
Temperature Effect: On zero	0.2	µV/V/°C
Safe Overload	150	% of Rated Capacity
Ultimate Overload	300	% of Rated Capacity
Excitation: Recommended	10	Volts AC or DC
Excitation: Maximum	15	
Input Impedance	350 nominal	ohm
Output Impedance	350 nominal	ohm
Insulation Resistance	>2	GΩ at 50VDC
Deflection at Rated Capacity	NA	mm
Weight (approximate) :	NA	kg
Construction	Aluminium	
Environmental Protection	IP65	
Cable	To customer requirements	