

SY018

Loadcell Amplifier

- ◆ **DIN rail mounted**
- ◆ **4 to 20mA or $\pm 10V$ output**
- ◆ **17 to 30Vdc supply range**
- ◆ **Protected against reverse supply connection**
- ◆ **5kHz bandwidth (-3dB)**



This DIN rail mounted loadcell amplifier is designed for use with strain gauge loadcells.

It provides industry standard current or voltage outputs for accurate interfacing of loadcells with control and monitoring systems.

This amplifier is ideally suited to engineering applications. Its small size and DIN rail mounting make compact multi-channel systems easy to implement.

The voltage output version of the amplifier has a bi-polar output for use with bi-directional loadcells even though it is powered from a uni-polar supply.

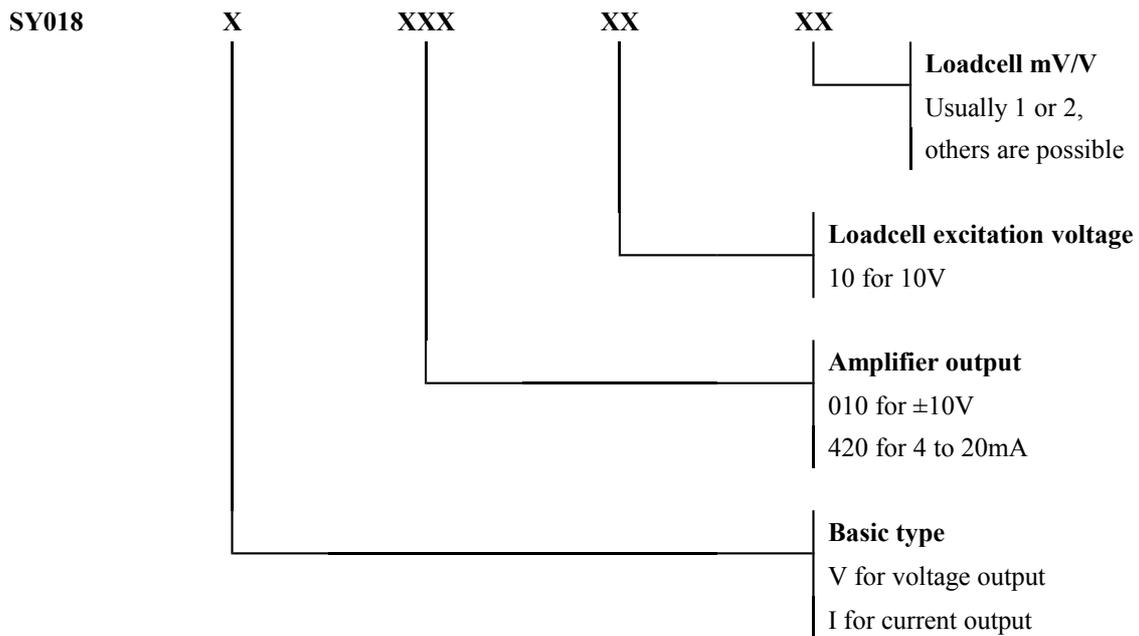
The amplifier is easily calibrated using non-interactive zero and span trimmers. If the SY018 is supplied with a loadcell it will normally be calibrated to read the loadcell output in the same force units as the loadcell calibration. A traceable system certificate will be supplied for the amplifier and loadcell combination.

This amplifier can be used with any of our loadcells. Details of our loadcell families can be found in the Product List and the Loadcell Specifier Guide. If you require copies please contact our sales department or look on our web site at www.novatechloadcells.co.uk.

SY018 Specification

Output	Current version: 4 to 20mA, loop resistance <400Ω Voltage version: ± 10V, load resistance >10kΩ, slew rate 0.1V/μs
Sensitivity	Factory set between 0.5 and 100mV/V
Span adjustment	±20%
Zero adjustment	Current version: 0.02 to 11mA at the output Voltage version: ±2V at the output
Non-linearity - typical	±0.02% of full range
Drift - typical	Zero: 0.1μV/°C at the input Span: 70ppm/°C
Loadcell supply	10Vdc at 150mA (4 x 350R loadcells)
Supply requirements	Nominal 24Vdc (17 to 30Vdc)
Maximum supply current	185mA
Operating temperature	0 to +50°C
Case material	Grey flame resistant polyamide
Case dimensions	H 72.5mm (mounted on rail) W 18mm D 62mm
Rail types	Asymmetric to EN50035 (DIN46277-1) Symmetric to EN50022 (DIN46277-3)

Order codes



If the SY018 does not have all the functions you require the SGA or LCA20 Loadcell Amplifiers may be more suitable. Please ask our Sales department for data sheets.

CE This product complies with the requirements of the European EMC directive.

NOVATECH MEASUREMENTS LTD

*** Manufacturing loadcells since 1972 ***

83 CASTLEHAM ROAD, ST LEONARDS ON SEA, EAST SUSSEX, TN38 9NT, ENGLAND

Tel: 01424 852744

email: info@novatechloadcells.co.uk

Fax: 01424 853002

www.novatechloadcells.co.uk