

SY011

Loadcell Amplifier

- ◆ Small size
- ◆ 4 to 20mA, $\pm 5V$ or $\pm 10V$ output
- ◆ 5 or 10Vdc stabilised loadcell supply
- ◆ Low zero drift
- ◆ 1kHz bandwidth (-3dB)



This 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 makes it easy to mount inside existing equipment.

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. When it is purchased with a loadcell it will be calibrated for use with the loadcell.

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

SY011 Specification

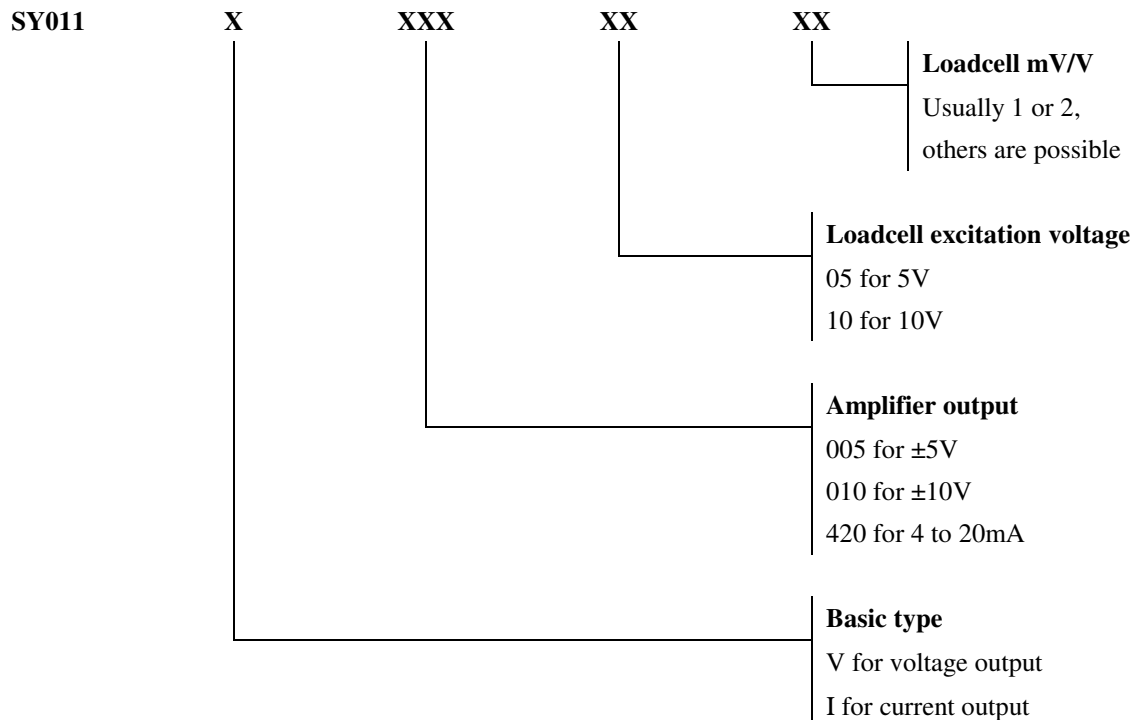
Output	Current version: 4 to 20mA, loop resistance <400Ω (24V supply) Voltage version: ±5V or ± 10V, load resistance >10kΩ
Sensitivity	Factory set between 0.5 and 100mV/V
Non-linearity - typical	±0.05% of full range
Drift - typical	Zero: 0.5μV/°C at the input Span: 80ppm/°C
Supply requirements	Current version: Nominal 24Vdc (12 to 30Vdc) Voltage version: Nominal 15Vdc (14 to 16Vdc)
Maximum supply current	185mA
Loadcell supply	5Vdc or 10Vdc (factory set)

Maximum loadcell current

Loadcell supply	Module supply	
	15Vdc	24Vdc
5Vdc	75mA	35mA
10Vdc	150mA	50mA

Operating temperature	0 to +50°C
Case material	ABS
Case dimensions	60 x 48.5 x 18 mm (including terminals)

Order Codes



If the SY011 does not have all the functions you require the LCA15 Intelligent Loadcell Amplifier may be more suitable. Please ask our Sales department for an LCA15 data sheet.

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

NOVATECH MEASUREMENTS LTD