

TLB DIN rail mounted digital loadcell amplifier

- ✓ Digital loadcell amplifier for DIN rail mounting
- ✓ 8mm high 5½ digit red LED display
- ✓ Localised push button controls for easy setup
- ✓ Digitally derived mA and V analogue output
- ✓ Linearisation, to correct for sensor non-linearity



Specification

Parameter	Value	Unit
Supply voltage	10 to 26	Vdc
Supply current	250	mA
Operating temperature	-20 to 60	°C
Storage temperature	-30 to +80	°C
Dimensions	115x25x120	mm
Display	8mm high 5½ digit red LED	
Measuring A/D converter	24	bit
Conversion rate	Up to 300 readings	per second
Thermal stability	0.0005% full scale	°C
Non-linearity	0.01% of full scale	
Loadcell input	4 wire and 6 wire with remote sensing	
Excitation supply	5 ±0.1	V
Bridge resistance range	85 to 5000	Ω
Sensitivity range	0.5 to 7.0	mV/V
Analogue output A/D converter	16	bit
Analogue output non-linearity	0.01%	of full range
Analogue output thermal stability	0.003%	full scale/°C
Analogue output options	0mA to 20mA, 4mA to 20mA, 0V to 5V,	

	0V to 10V, $\pm 5V$, $\pm 10V$	
Maximum current loop resistance	300	Ω
Minimum voltage output load resistance	10k	Ω
Digital inputs	2 optoisolated 5-24Vdc	
Relay outputs	3 rated at 115Vac, 150mA	
Communications	RS485 serial port, ModBus RTU, ASCII	

TLB DIN rail mounted digital loadcell amplifier

A compact digital loadcell amplifier card with digitally derived analogue output for current loop and voltage measuring systems. The TLB includes localised controls and a 6 segment display for easy setup in the field. While taking measurements the display provides a 5½ digit monitor of the load conditions experienced by the TLB to allow for easy system diagnostics. The TLB offers 3 relay outputs to drive trips and alarm indicators, and 2 optoisolated inputs for remote control of the amplifier. Versions are available with a wide range of communications options for CANopen, DeviceNet, CC-Link, Profibus, Modbus, Ethernet, Profinet, EtherCAT, POWERLINK and SERCOS III. Basic models: TLB [TLB DIN rail mounted digital loadcell amplifier]

Novatech Measurements Limited

83 Castleham Road, St Leonards on Sea, East Sussex, TN38 9NT, England.

Telephone: +44 (0)1424 852744

Fax: +44 (0)1424 853002

E-mail: info@novatechloadcells.co.uk