

TLM8 Multi-input digital loadmeter

- ✓ Multi-input digital loadmeter for DIN rail mounting
- ✓ 8 loadcell inputs with digital span equalisation
- ✓ 60x32mm display with localised controls for easy setup
- ✓ Wide range of communication interface options
- ✓ 5 relay outputs for control system integration



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	148x92x60	mm
Display	60x32mm 128x64pixel 5½ digit LCD	
Measuring A/D converter	24	bit
Conversion rate	Up to 600 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	350 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	
Maximum current loop resistance	400	Ω
Minimum voltage output load resistance	2k	Ω
Digital inputs	3 optoisolated 5-24Vdc	
Relay outputs	5 rated at 115Vac, 150mA	
Communications	RS485 serial port, ModBus RTU, ASCII	

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A compact solution to interfacing multiple parallel connected loadcells for force measurement and weighing applications. The TLM8 has a block of terminals that acts like a junction box to connect up to 8 loadcells in parallel. Additionally the TLM8 allows for span equalisation of the individual loadcell inputs, to correct for any output differential between the loadcells. The TLM8 offers 5 relay outputs to drive trips and alarm indicators, and 3 optoisolated inputs for remote control of the loadmeter. 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: TLM8 [TLM8 Multi-input digital loadmeter]

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