



Load Cell Input Panel Meter



- 6 digit LED display
- 4 or 6 wire load cell input
- Up to 4mV/V as standard (10mV/V optional)
- 10 point linearisation
- 20-bit A/D converter
- 10V @ 120mA excitation voltage (5V optional)
- Powers up to 4 x 350Ω load cells
- · Optional isolated analogue output
- · Optional alarm outputs, 2 or 4 relays
- Optional data interface, RS232, RS422/485 or Modbus RTU
- New single layer menu for easier setup
- Compatible with existing INT2 series
- IP65 front panel sealing
- Dust tight & low-pressure water jet protection
- IP67 front panel cover optional
- Various mounting options available
- User friendly manuals
- 95-265V AC or 11-30V DC power
- Multi-program memory option
- Sensor drift correction
- Direct or theoretical calibration
- Adjustable display brightness

DESCRIPTION

Set 1

Digit

The INT4-L is our most popular 1/8 DIN load cell input panel meter with its high precision and stability. The digital indicator utilises a modular construction technique which enable you to configure it with the exact functionality you require, this flexible approach ensures that you only pay for the features you need. Ideal for weight, torque, strain, pressure and stress measurements.

Output

Alarms

OK

Kg

The load cell readout is provided by a 6 digit 7 segment LED display which is coupled with an ultra-high resolution 20-bit A/D converter and highly stable strain gauge bridge excitation source to provide your instrumentation with perfect resolution and stability. In addition the easy to use menu navigation allows you to have the indicator set up within minutes.

We offer a wide range of optional outputs including, voltage and current analogue outputs, 2 or 4 alarm relays with a wide range of configuration settings, data interface via RS232, RS422/485 + Modbus ASCII and Modbus RTU.

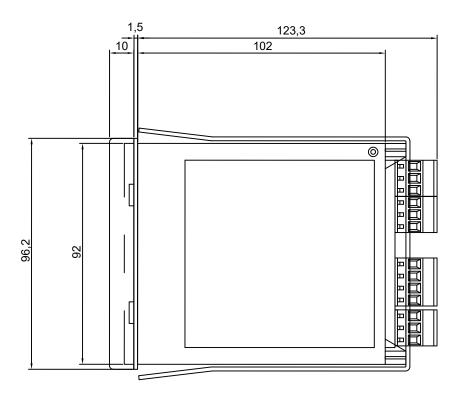
With backward compatibility with the existing INT2 series with its same front panel design, dimensions and connections it makes transitioning over to the INT4 easy.

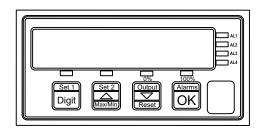


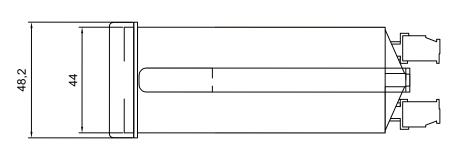
TECHNICAL DATA	
Display 6 digit, 7 segment LED, 14mm high (-199999 to +999999)	
Viewing Distance	7m
Digit Colour	RED (standard), GREEN (optional), RED daylight viewing (optional)
Input Signal	Up to 4mV/V as standard (10mV/V optional)
Power Supply	95-265V AC (standard), 11-30V DC (optional)
Power Burden	10VA max
Resolution	1:400,000 max. (bipolar)
Display Update Rate	100ms
Input Connections	6 screw terminals for 4 or 6 wire bridge load cells
Accuracy	+/- 0.05% of range
Linerisation	10 points
Filtering	Adjustable from 0 to 25 seconds. active filter
Last Digit Round-up	Selectable 1, 2, 5, 10, 20 or 50
Front Panel Controls	Calibration, tare, reset, max/min, alarms
Brightness	Variable, 7 levels
Thermal Stability - Range	+/- 25ppm/°C
Thermal Stability - Offset	+/- 30ppm/°C
Logic Inputs	3 (normally open, NPN or contact closure)
Logic Functions	Hold, reset, tare, peak/valley, net/gross, memory address
Unit of Measure Label	Sheet of labels included
EXCITATION	
Excitation Voltage	10V DC nominal rated at 120mA (must connect to sense), 5V DC (optional)
Excitation Sense	Ratiometric, 4V absolute minimum allowed after line drops
ENVIRONMENTAL	
Front Panel Sealing	IP65 (standard), IP67 with optional SPC4 cover
Storage Temperature	-20 to +70°C, non-condensing
Operating Temperature	0 to 50°C, non-condensing
ANALOGUE OUTPUT	(optional)
ANI Option	0-20/4-20mA into 0 to 500 Ohms, resolution 0.4uA
ANV Option	0-10V into loads >600 Ohms, resolution 0.2mV
ANB Option	+/- 10V into loads >600 Ohms, resolution 0.4mV
Scalable	Yes
Isolated	Yes
Accuracy	0.1% of range
Linearity	+/- 0.02% of range
Stability	50ppm/°C
ALARM OUTPUTS (op	
AL2 Option	2 x SPST mechanical relays, 2A @ 250V AC, resistive load
AL4 Option	4 x SPST mechanical relays, 2A @ 250V AC, resistive load
DSS Option	2 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC
QSS Option	4 x solid state relays, specify AC or DC, 100mA max @ 250V AC, 500mA max @ 60V DC
SPCO Option	2 x SPCO mechanical relays, 2A @ 250V AC, resistive load
DATA INTERFACE (optional)	
232 Option	RS232 ASCII
485 Option	RS422/RS485 ASCII + Modbus ASCII
RTU Option	RS485 Modbus RTU

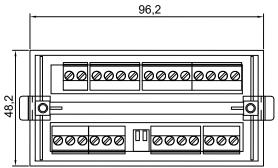


WEIGHTS AND DIMENSIONS	
Bezel Size	96mm x 48mm
Panel Cutout	92±1mm x 45±1mm
Depth Behind Panel	125mm
Case Width	92mm
Case Height	44mm
Case Depth	134.8mm
Typical Weight	300 grams
Individual Packed weight	800 grams
Individual Packed Dimensions	190mm x 130mm x 65mm
Case Material	Black polycarbonate
Cable Dimensions	Accepts multi strand wires total area from 1mm² to 4mm²
Mounting	Panel (standard), DIN rail mounting (optional), wall mounting enclosure (optional)



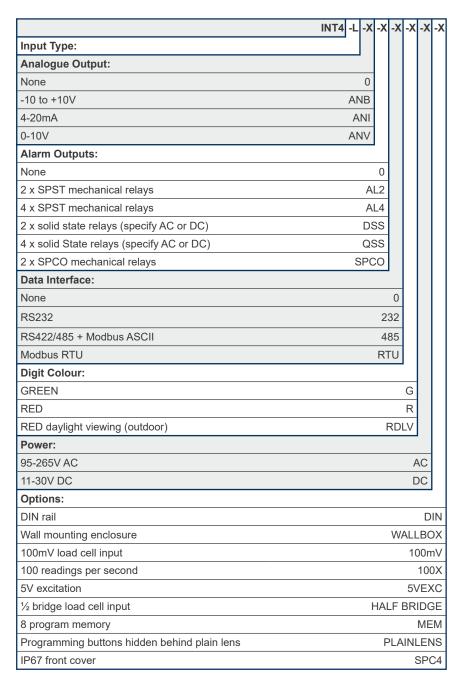








ORDERING CODES AND OPTIONS



Ordering example:

The code INT4-L-ANI-AL2-232-R-DC-DIN

INT4-L - Load cell panel meter

ANI- 4-20mA

AL2 - 2 x SPST mechanical relays

232 - RS232 R - Red display DC - 11-30V DC

DIN - DIN rail mounting

www.london-electronics.com

INT4-L_datasheet_rev2





