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## Panel mounting load indicator

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**Model IL4-L**  
**Display-only 'LITE' version**

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**Model IJ4-L**  
**'Junior' version with 2 alarms**

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- ✓ Easy setup
- ✓ Loadcell Input = 4 or 6 wires
- ✓ Display = 3, 4, 5 or 6 digits (configurable)
- ✓ 10V Excitation at up to 120mA
- ✓ 10 point linearisation
- ✓ Vibration filtering for stable reading
- ✓ 110-230V AC or 11-30V DC power

**Caution:** There is a risk of electrical shock if this instrument is not properly installed

**Caution:** Risk of danger: Read the whole manual before you install this meter





# Equipment Specifications

<b>Bezel size</b>	48mm high by 96 mm wide (1/8 DIN)
<b>Panel Cutout</b>	45 mm high by 92 mm wide
<b>Case Depth</b>	125 mm including connectors
<b>Weight</b>	300 grammes
<b>Case Material</b>	Black polycarbonate
<b>Connectors</b>	Detachable Screw Terminal connectors
<b>Environmental</b>	Storage Temperature range -20 to +70C, non condensing Operating temperature range 0 to 50C, non condensing Front sealed IP65. Optional cover SPC4 for IP67
<b>Power Burden</b>	100-240 VAC, 45 to 60Hz or 11-30 VDC optional 10VA maximum
<b>Input Signals (bipolar)</b>	4 or 6 wire loadcell up to +/-40mV (+/- 100mV option)
<b>Input Resistance</b>	>10 Megohms
<b>Accuracy</b>	+/-0.05% of range. Allow 30 minutes after switch-on, for thermal stabilisation.
<b>Span tempco</b>	25 ppm/Degree Celsius
<b>Zero Tempco</b>	30 ppm/Degree Celsius
<b>5V Excitation voltage</b>	5VDC nominal rated at 40mA. Must connect to Sense.
<b>10V Excitation voltage</b>	10VDC nominal rated at 120mA. Must connect to Sense.
<b>Excitation Sense</b>	Ratiometric, 4V absolute minimum allowed after line drops
<b>Filtering / smoothing</b>	Selectable time constants of 0 to 25 seconds. A/D is preceded by an active low pass filter with 7Hz cutoff point.
<b>A/D conversion</b>	Sigma-Delta 10 conversions per second, 50/60Hz rejection Resolution 1 in 400 000 max. over full range
<b>Display update rate</b>	10 readings per second.
<b>Display Range (max)</b>	-199999 to +199999, depending on available signal level.

## Plug-In Output Options

### Analogue, Alarm, ASCII and Clock Options

See separate output manual for details.

**Ordering code: IJ4-L-X-X-X**

**IJ4** = Intuitive Mark 4 'Junior' family  
**L** = Loadcell model  
Display colour: — **R**=Red, — **G**=Green  
Power: — **AC**=100-240V AC, — **DC**=11-30V DC  
Mounting: — **0** = Standard panel — **DIN** = DIN rail mounting

Load Cell display with 2 alarm relays

**Ordering code: IL4-L-X-X-X**

**IL4** = Intuitive Mark 4 'LITE' family  
**L** = Loadcell model  
Display colour: — **R**=Red, — **G**=Green  
Power: — **AC**=100-240V AC, — **DC**=11-30V DC  
Mounting: — **0** = Standard panel — **DIN** = DIN rail mounting

Load Cell display only, no outputs

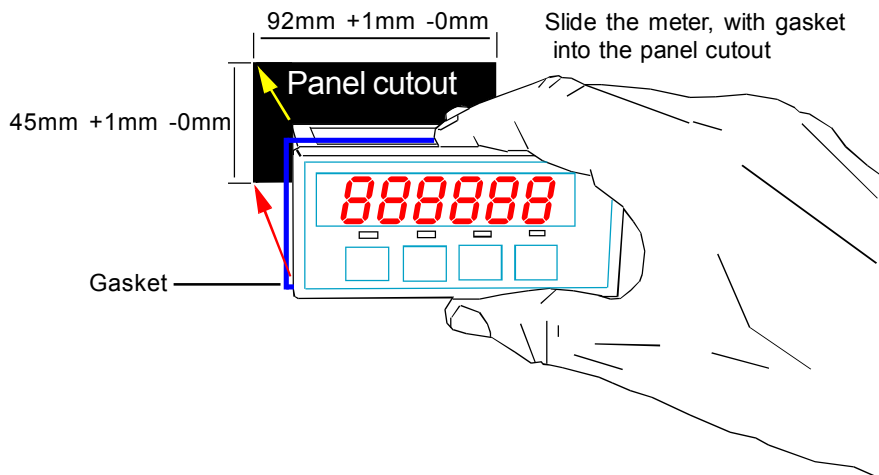
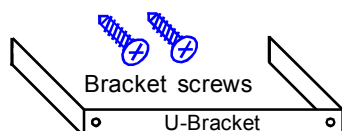


## Panel Mounting and Installation - Class II

Install the meters in a suitable protective electrical control enclosure according to local wiring regulations. See specifications for maximum allowable temperature in enclosure. Allow adequate air circulation.

### Installing into front of panel

Remove the two rear bracket screws and safely store them and the U-Bracket for later fitting.



### Securing into the panel

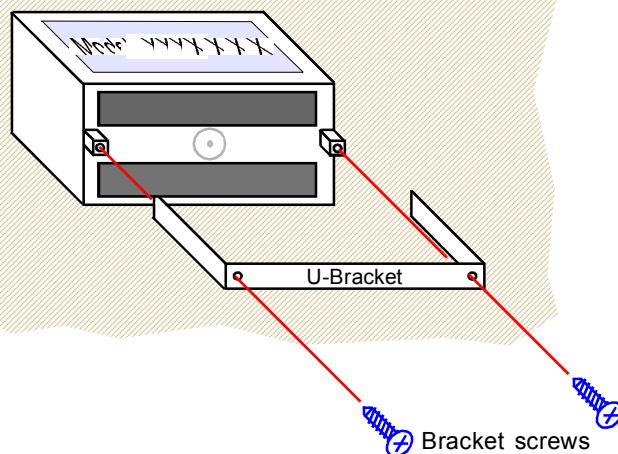
Re-fit the U-Bracket and tighten the bracket screws to firmly clamp the meter in place. Check that the gasket is evenly pinched between the meter's front bezel and the enclosure front

### Ventilation

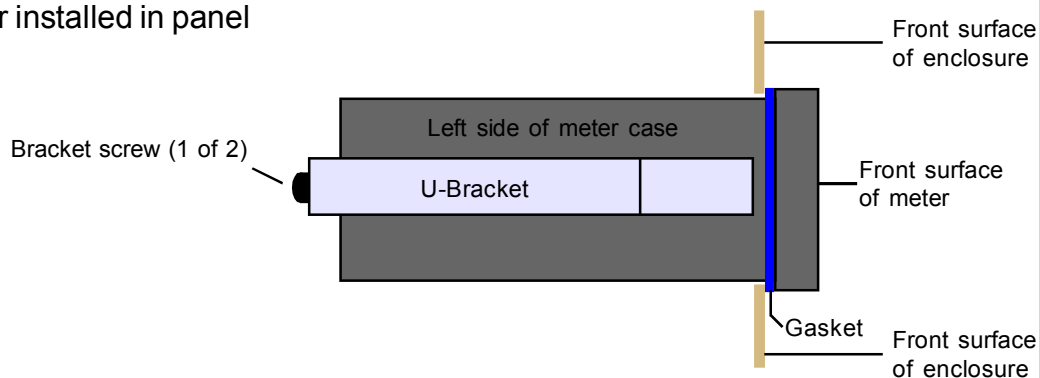
There should be sufficient ventilation in the enclosure to ensure that the meter's case is always kept to less than 60C.

### Meter Spacing.

Meters should be spaced apart sufficiently to allow a free flow of ventilation air around the meters, such that no part of the case will exceed 60C



### Side view of meter installed in panel



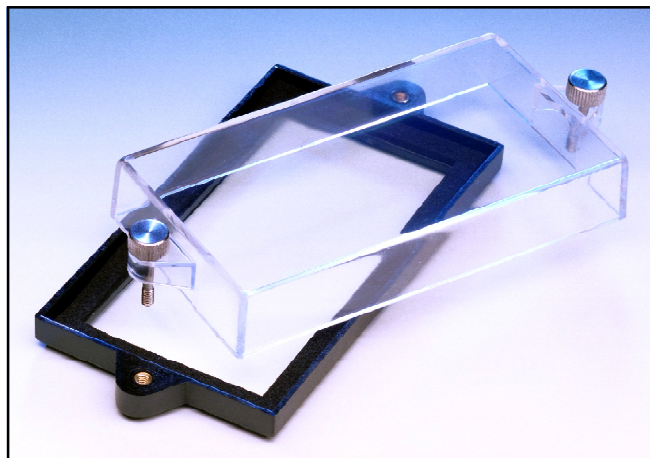


## Other mounting options

### IP67 SPC4

The SPC4 splashproof cover gives IP67 / NEMA4-X protection for the front of your meter. Ideal for use in harsh wet environments.

Available with optional security tag ports to allow you to fit your own crimped wire tamper-seals, to prevent or indicate unauthorised access (Similar to tags used on electricity meters)



### Wall Box

The Wallbox is sealed IP65 all round, and is supplied with the meter installed, for you to wire to, via 3 cable glands. It comes complete with SPC4 splashproof cover.

We also offer a dual version of this enclosure, which can take 2 meters, one above the other.



### PCC Series

The PCC series of Portable Carrying cases is ideal for housing your panel meters so that they can be used in the lab. These enclosure come fully wired, with panel meters fitted and with IEC switched power connector plus any input or output connectors, as required.

Versions are available to accept 1, 2, 4, 6, 8, 12 or 16 meters

