Features

- Easy monitoring of individual load cell conditions to identify a potential problem.
- No external power supply required.
- Robust design for harsh industrial applications, sealing rating up to IP65.
- Monitors for Load cell out of range, out of balance and cable break faults.
- ‘Healthy’ relay output.
- Bright OLED display for easy viewing in all lighting conditions.
- CAN BUS for interfacing to other instrumentation including weight indicators in our range.

Options

- DIN rail or stainless steel enclosure version sealing up to IP66.

Description

The new Intelligent junction box is designed for monitoring load cell weighing systems for error or fault conditions. In most applications, the Intelligent junction box can be used in place of a standard junction box and does not require an external power supply. The bright OLED graphical display shows the millivolt output from each load cell, with the facility to view individual load cell outputs, average load cell outputs and excitation voltage. Up to 4 load cells can be individually monitored on a system. Fault conditions are displayed on the front screen and a ‘healthy’ volt free relay contact is available for external connections. All fault messages are transmitted via the on board CAN bus interface. Specific weight instrumentation in our range can also display these fault messages and alert the user to a potential problem.
Specifications

Faults are displayed and reported via a ‘healthy’ volt free relay contact and CAN Bus output.

Maximum and Minimum load cell outputs can be pre-set and any variations outside these parameters are reported.

Individual loadcell outputs are displayed, together with average millivolt output and loadcell excitation voltage.

Cable breaks, over-range, under-range and unbalanced loadcell conditions are reported instantaneously.

PART NUMBERS

<table>
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<th>Part Number</th>
<th>Description</th>
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<tr>
<td>AW190/00000</td>
<td>Intelligent load cell junction box, IP65 ganged enclosure.</td>
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<tr>
<td>AW190/00300</td>
<td>Stainless steel IP66 enclosure.</td>
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Housing
IP65 BS EN60529, ASA-PC DIN rail or surface mount bracket.

Display
Bright OLED 256x64 pixel.

Dimensions
With stainless steel mounting plate:
213 x 132 x 48mm, mounting holes 197 x 88 x 5.5mm dia.

Case only (without stainless steel mounting plate):
174 x 120 x 37mm, mounting holes 162 x 88 x 4.5mm dia.

Supply voltage
5-10 volts DC, 100mA min, 175mA max.
Self powered from the excitation voltage.
Relay contact rating 30vdc, 120vac 1A resistive.

Environmental conditions
Operation: -10°C to +50°C, Storage: -40°C to +70°C.

Weight
650g with mounting bracket, 350g without mounting bracket.

Temperature drift
+/- 0.01% FS per °C

Accuracy
Measurement +/- 0.6mV, range -35mV to +35mV.

In the interest of continued product development, Applied Weighing reserves the right to alter product specifications without prior notice. APPLIED WEIGHING INTERNATIONAL LIMITED, Caversham, Reading, England RG4 5AF

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