

# Trojan

## Load Cell Amplifier



upto  
IP65



### Features

- High accuracy.
- 10v @ 150mA excitation to drive up to 4 x 350Ω or 8 x 700Ω load cells.
- Isolated inputs and outputs.
- Fully programmable via keypad and communications port.
- 4.5 digit, LCD display.
- Auto calibration.

### Options

- 2 relay set points and communication protocols.
- Surface mount enclosure (shown above) or DIN rail mounting (shown over).

### Description

The Trojan load cell amplifier is a compact, microprocessor based unit, specifically designed to indicate and control weighing applications. It's flexibility of design enables it to be connected to a wide range of load cells. The Trojan has both 4-20mA and 0-10vdc analogue outputs as standard with an on board LCD programmer with a 4 switch arrangement for programming and reviewing parameters. Options include 2 volts free relay contact with in-flight compensation.

# ENGINEERING SPECIFICATIONS

## TROJAN LOAD CELL AMPLIFIER

### Specifications

#### Display

7 segment LCD 4.5 digit  
2 x LED's for relay status, 1 x status for hold

#### Controls

4 membrane panel keys with tactile feedback.

#### Data retention

10 years for set-up values, keypad disable function.

#### Environmental conditions

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

#### Relative humidity

95% max, non condensing.

#### Protection

IP65 with ABS enclosure

#### Drift

0.002% per °C @ 2.5mV/V.

#### Accuracy

Typically +/- 0.08% of output.

#### Resolution

15 bit / 4.5 digit.

#### Isolation

130v RMS or DC max to analogue output or any part.

#### Accuracy

90 days  $\pm 0.08\%$  of reading  $\pm 0.05\%$  of FSD.

#### Speed

10 readings per second, with a digital filter to reduce speed.

#### Terminal

2.5mm saddle field terminals.

#### Power supply options

220-240vac 50-60Hz 10W.

110-120vac 50-60Hz 10W.

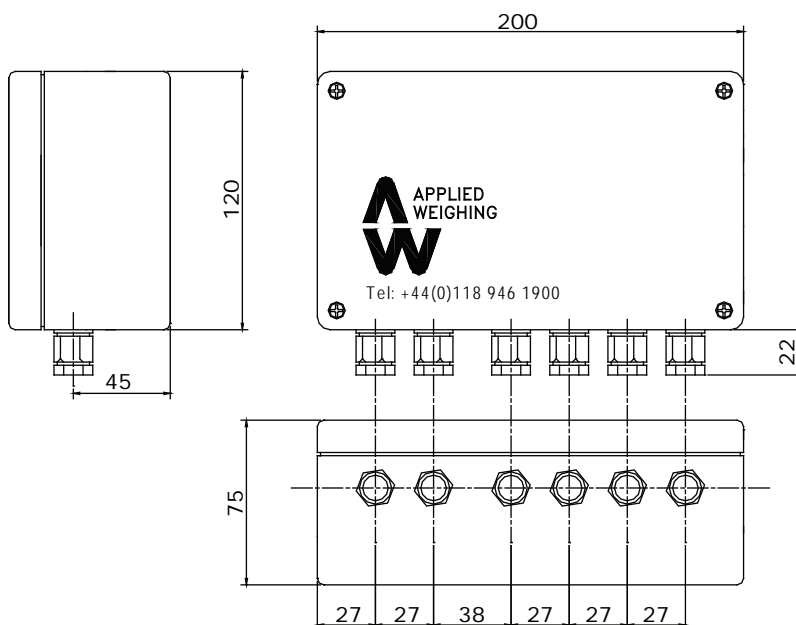
18-60vdc 10W isolated (3A start up current).

### PART NUMBERS

Base unit	Part number	Enclosure options	Part number	Description
110/240 vac 9-32vdc power supply 2 setpoint relay card RS 232/485 card	AW115/00000 AW115/00010 AW115/00001 AW115/00020	ABS IP65 glanded box Clear enclosure lid Stainless steel box DIN rail module	AW115/00100 AW115/00150 AW115/00700 AW115/04000	Hand held programmer AW120/04000



DIN rail module option AW115/04000



All dimensions in mm

**Refer to installation documents before use**

#### Notes

ABS Enclosure rated upto IP65  
Fixing holes dia. 4  
89 x 188

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