



MEASUREMENT AND CONTROL SOLUTIONS

LOADCELLS AND AMPLIFIERS FOR TENSION MEASUREMENT

DCA-22 Dual Channel Loadcell Amplifier

- Total, Left and Right load outputs
- Outputs 0 to 10VDC and 4 to 20mA
- Simple push button calibration of zero and span
- Logical user friendly programming
- Displayed value and diagnostic data
- Response time 1ms
- Foil and semiconductor strain gauges
- Modbus RTU/RS485 comms

The DCA-22 may use up to date electronics, but it follows the original principles of earlier TTS Systems amplifiers..... multiple outputs, easy to set-up and robust circuitry.

Working with one or two loadcells the amplifier can provide three analogue outputs – Total, Left and Right. Also available is a digital alarm output for overload protection.

Configuration and calibration is aided by the display instructions, following a simple logical route. The calibration load value is entered directly in Kg or lbs, reducing time and errors.

Modbus RTU/RS485 communications can be used for programming and calibration using simple command instructions.



*Replacing a
TTS DCA-10 signal
conditioning amplifier*

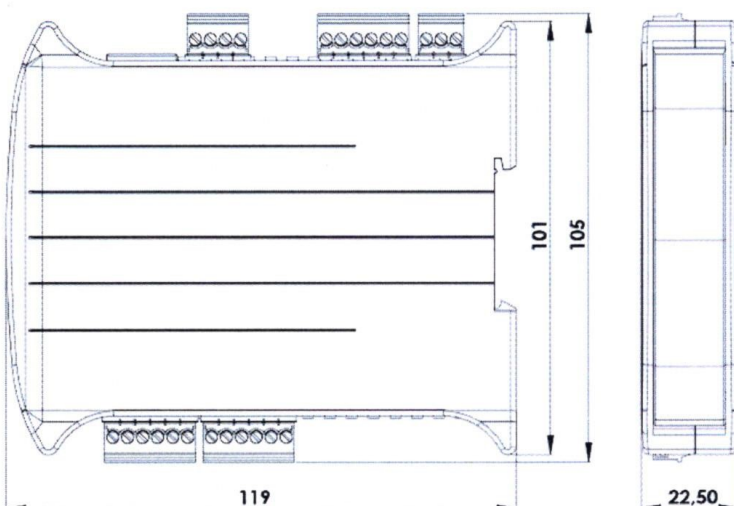
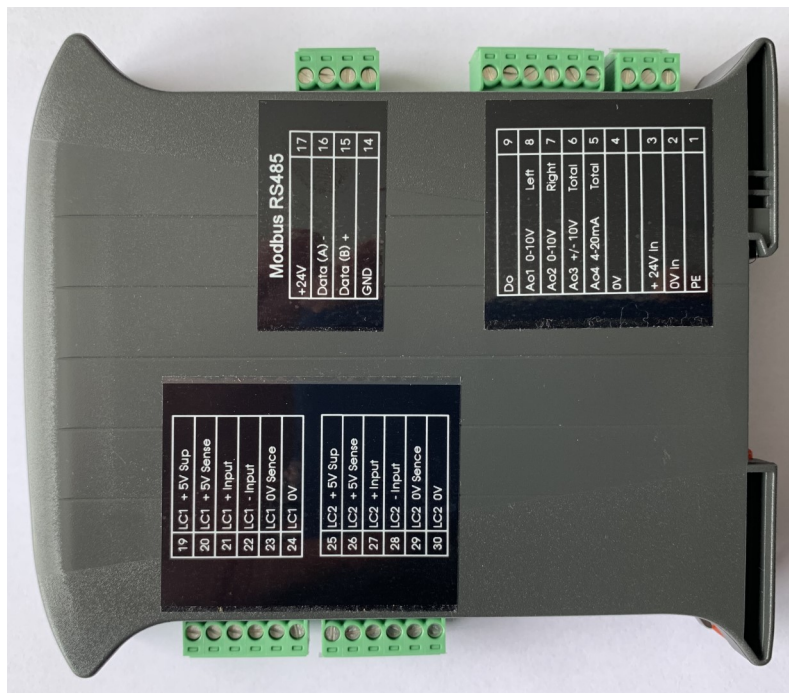
*Easy to use cross
reference guide
available*



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Technical Specification

Supply Voltage	24VDC +/-15%
Power Consumption	Less than 100mA
Foil Strain Gauges	Full Bridge 350 / 720 / 1k Ohm
Semiconductor Strain Gauges .	Half Bridge 120 Ohm
Excitation Voltage	5VDC
Measuring Range	+/-39mV to +/-4.96V
Conversion Rate	1.000/s
Response Time	1 ms
Calibration Units	N, Kg, lbs, %
Output Total Load	+/- 10VDC and 4 to 20mA
Output Left and Right Load	0 to 10 VDC each
Working Temperature	-20 to +60 degC
DIN Rail Mounting	35mm to EN 60715
Mounting Clearance	20mm required above, below, both sides



TTS Systems offers a complete range of loadcells, amplifiers & controllers for web, wire and filament tension measurement.

Plus position and edge sensing, compact web guides and retro-fit.

www.tts-systems.com

