

## Strain Gauge or Load Cell Digitiser Module (4 channel)

### Instruction Sheet

#### Features

- LED Power Indicator
- Option to terminate bus through 120 ohm resistor
- Bus Connections for communication and Power Supply
- Bus Connection via 2 Part screw connectors
- ‘Daisy Chain’ Bus through D type connectors
- 2 Part Connectors for Load Cells
- CAN Compliant
- 3 year guarantee
- IP65 NEMA 4 ABS surface mounting case (as shown)



Photo showing DSJ4 with 4 x DSC pcb cards fitted & in ABS surface mounting case

#### Introduction

The function of the DSJ4 is to enable the easy connection for 4 channels of a load cells and DSC Cards for communications to a PC or PLC.

Designed to take 4 DSC cards in a single enclosure, the DSJ4 offers a convenient and practical solution to the installation of digital load cells with platforms, silos and any weighing systems where connection to PC and PLC's is an essential requirement of the system.

Supplied as an OEM device 100 x 185mm PCB, it has options for fitting in an IP65 ABS case, or to a DIN rail fixture.

#### Notes for installation & preparing for use

For the operational and communication requirements of the DSC card, refer to the DSC User Manual Instructions. The DSC card is mounted on the main PCB with 3 pillars. The D type connectors J10 & J11 and the 5 way two-part connector J9 provide the power connections and the RS485 or CAN connections. J10 and J11 also provide a ‘daisy chain’ interconnect facility for multiple DSJ4 units. J5 to J8 are two-part 4 way connectors which provide connections for the digital input and output. J1 to J4 are 8 way two-part connectors providing connections to the strain gauge and external temperature sensor.

Connection details are shown on the layout diagram on the reverse of this sheet.

**Cable Screening:** It is strongly recommended that all cable screens are connected.

A green LED L1, marked PWR on the PCB provides an indication of power.

Link LK1 is used to provide a 120R terminating resistor for RS485 or CAN connections.

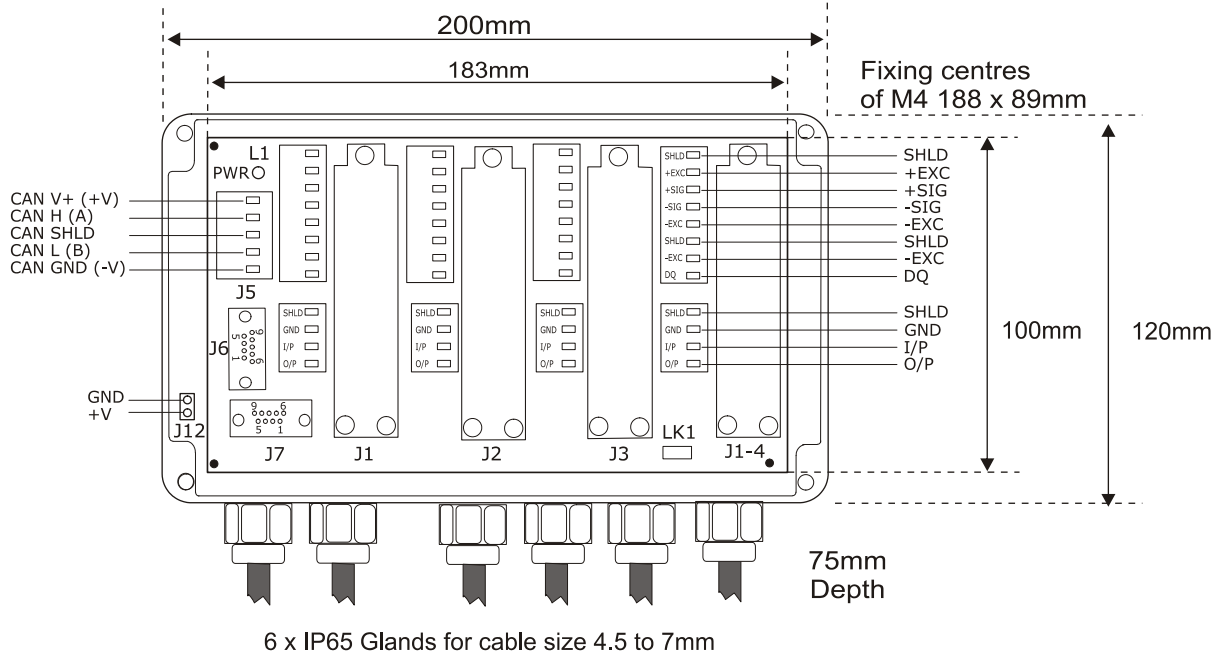
## Power supply specifications

Supply Voltage	5.8 to 18V dc
Power	0.5 to 1.5 watts

## CE & Environmental Approvals

Storage temperature	-20 to +70°C	European EMC Directive	2004/108/EC
Operating temperature	-10 to 50°C	Low Voltage Directive	2006/95/EC
Relative humidity	95% maximum non condensing		

## Mechanical dimensions inside optional case



Connectors J10 & J11		
PIN	RS485	CAN
1		CAN
2	B	CAN L
3	-Vin	CAN GND
4		
5	SHLD	CAN SHLD
6		
7	A	CAN H
8		
9	+Vin	CAN V+

## Cable shielding

When using J10 & J11 for communications the cable screen is connected to pin 1.



CE In the interests of continued product development, Mantracourt Electronics Limited reserves the right to alter product specifications without prior notice.

## Distribuidor

**Brasil e América do Sul**

### CONTATO

#### Endereço

Rua Sete de Setembro, 2656 - Centro  
13560-181 - São Carlos - SP - Brasil

#### Telefone

+ 55 (16) 3371-0112  
+ 55 (16) 3372-7800

#### Internet

[www.metrolog.net](http://www.metrolog.net)  
[metrolog@metrolog.net](mailto:metrolog@metrolog.net)

