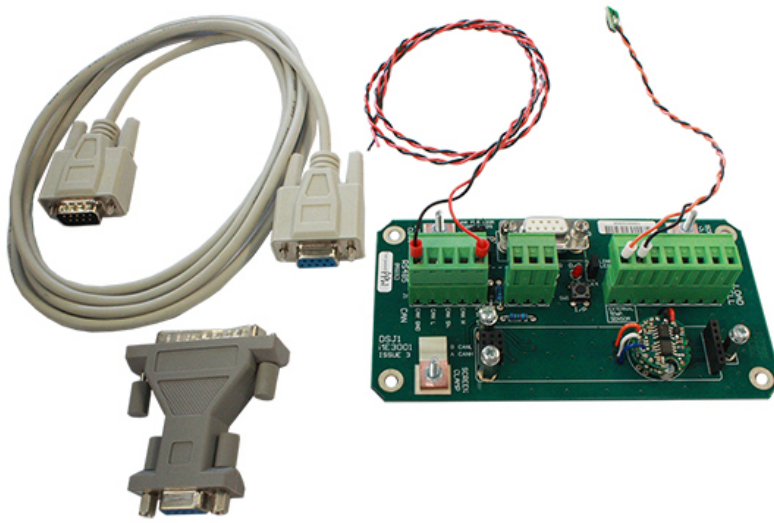Ideal way for first time users to familiarise with the digitiser modules in test situations. One free DCell or DSC included in the kit

User Benefits

- Kit is set up and ready to go!
- Includes everything you need to communicate with the DCell or DSC from your PC
- Low cost way of discovering the benefits of DCell and DSC
- Free software

Introduction

An Evaluation PCB (DSJ1) which comprises of:
- 8 way screw connector for the strain gauge & temperature sensor
- 5 way screw connector for power & RS485 comms
- 9 way 'D' Type for direct RS232 connection to PC, CAN & RS485
- Link headers for RS232 or RS485 comms selection
- Terminating resistor for CAN & RS485
- LED for power indication
- LED for digital output (DSC only)
- Push switch for digital input (DSC only)
- 9 to 25 way 'D'Type adaptor for the PC comms port
- 9 way 'D' Type extension lead
- For RS485 only an RS232 to RS485 converter and connecting cable
- For RS232 only a power connection cable
- For CAN only IXXAT to CAN compact converter

Ideal Applications

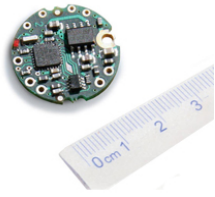- Civil Engineering
- Agriculture
- Marine
- Test & Measurement
- Torque Measurement

Specification at a Glance

- Available formats RS232 & RS485.
- On-board temperature sensor for easy evaluation of temperature compensation

DCell
Embedded digital load cell converter, RS485, Modbus, CAN

ILE
Stainless steel enclosure for DCell data converters and ICA

DSC
Card version available the strain gauge data converter to RS232. Modbus, CAN, RS485

DSJ1 & 4
Strain gauge data converter to RS232. Modbus, CAN, RS485 available as single or 4 channel IP65 enclosure

Related Software

DSC 24 Channel Logging
View and log up to 24 channels

Instrument Explorer
Quick set up software event monitoring, data logging, calibration and configuration

Case Study

The Application:
An Australian mango grower had to accurately weigh his produce. It they are not of a required minimum weight to be sold as fruit, they are under-sold for chutney.

The fruit's irregular shape made it difficult to weigh. As they moved along the conveyor for processing, their irregular shape caused them to bump and collide, which the standard load cell picked up as 'noise', and made it impossible to accurately weigh the fruit.

The Solution:
What was put in place was incredibly simple but effective. After the inspection section of the conveyor, the mango's are placed in individual egg-cup like trays to keep them stable when moving on

to the weigh beam. Now that the 'noise' is removed, the weighing system needs to be fast enough to respond.

Mantracourt's DCell load strain digitiser records 500 readings / sec. This is fast enough to weigh the moving fruit and thereby accurately measure the weight of each individual fruit. The system allows only truly underweight products to be rejected.

CE & Environmental

Storage temperature	- 40 to +85ºC
Operating temperature	- 40 to +85ºC
Relative humidity	95% maximum non condensing

CE Environmental Approvals

European EMC Directive	2004/108/EC

For more information contact us today...

mantracourt.com
technical@mantracourt.com
Mantracourt Electronics Ltd
The Drive, Farringdon, Exeter, Devon, EX5 2JB, UK
tel: +44 (0) 1395 232020
fax: +44 (0) 1395 233190
  In the interests of continued product development, Mantracourt Electronics Limited reserves the right to alter product specifications without prior notice

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