

Strain Gage or Load Cell Digitizer Module



Slimline digital strain cards designed for use with strain gage sensors such as pressure transducers, load cells and torque sensors, with option of two enclosures shown above.

Introduction

The digital load cell or strain gage digitizer cards (DSC) have high speed, high precision strain gage signal conversion capabilities with linearization and temperature compensation of the sensor.

Two IP65 / NEMA 4 rated enclosures are available for multiple or single DSCs.

Features at a Glance

- Available formats include RS232, RS485, ASCII, Modbus, CAN and MantraCAN (J1939) Please Note: MantraCAN products will work only with the software up to and including Windows Vista
- Ultra high performance, resolution of 1 part in 400,000 (18bit)
- High speed, up to 500 updates per second (streaming)
- Auto calibration or direct entry of mV/V with linearization
- Programmable dynamic filter
- Temperature compensation
- Peak and valley recording
- Remote shunt calibration by software command or digital input
- Card dimensions 20 x 87.4 x 12 mm

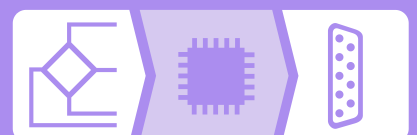


User Benefits

- Compact OEM PCB format for easy retro-fitting to products
- Option of IP65 / NEMA 4 case for 1 or 4 digitizer modules
- Error reporting including strain gage fault conditions
- Free software enabling 24 DSCs to be viewed and logged simultaneously

Ideal Applications

- Civil Engineering
- Agriculture
- Marine
- Industrial Processing
- Silo & Weighing Industry



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Order Codes

High Stability Output:

RS232, ASCII
RS232, MANTRABUS
RS232, MODBUS
RS485, ASCII RS485
MANTRABUS RS485
RS485, MODBUS
MantraCAN

Part Number:

DSCH2ASC
DSCH2MAN
DSCH2MOD
DSCH4ASC
DSCH4MAN
DSCH4MOD
DSCHMCAN

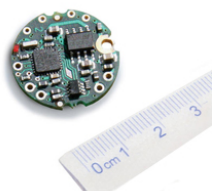
Industrial Stability Output:

RS232, ASCII
RS232, MANTRABUS
RS232, MODBUS
RS485, ASCII RS485
MANTRABUS RS485
RS485, MODBUS
MantraCAN

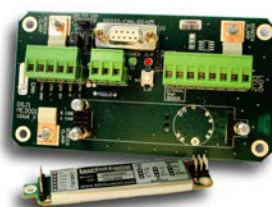
Part Number:

DSCS2ASC
DSCS2MAN
DSCS2MOD
DSCS4ASC
DSCS4MAN
DSCS4MOD
DSCSMCAN

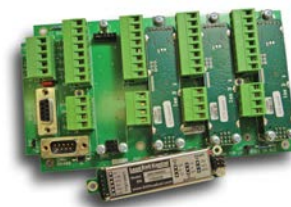
Related Products



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



DSJ1
Single channel strain gage
data converter to RS232.
Modbus, CAN, RS485



DSJ4
4 channel digital load cell converter CAN
RS485 Modbus, or IP65 cased version
available

Related Software & Products



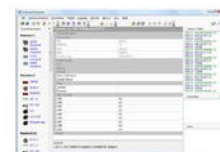
DS485DIS
RS485 data display for DSC and DCell



DSCUSB
USB load cell interface for load cell /
strain gage



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:

A company was looking for a cost effective way of monitoring individual silos with a simple display without the need for permanent connection to a dedicated PC or complicated PC software.

The Solution:

The solution was achieved by installing four load cells wired to digital strain cards (DSCs) fitted to a multi channel (DSJ4) which allowed the load cells and DSC's to be easily connected via RS485 to the LED display.

By mounting the LED display (DS485DIS) to the wall of the silo, users were able to quickly view changes within the silo. Users

viewed the summated value of the display as standard but could view the individual values of each of the four load cells also.



An error message alerted users to any issues with of the individual load cells.

CE & Environmental

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

CE Environmental Approvals

European EMC Directive 2004/108/EC

DSC Product Sheet

Issue 3.9

13-01-14

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