

Digital Strain RS485 Display Module

Features

- Displays up to 8 DSC or DLC individual or summed devices
- Removes the need for DSC/DLC to be permanently connected to a PC or PLC
- Synchronised sampling across devices
- Gross/Net Toggle
- Easy to operate toggle buttons
- 6 Digit 20mm LED Display in Red
- Sealed to IP65
- 3 year Warranty
- Bulkhead mounted



Introduction

The DS485DIS is an LED display module allowing the connection and summing of up to eight (8) DSC or DLC devices. The display enables the use of DSC or Dcells without the need for permanent connection to a PC or PLC.

The display can toggle between gross and zeroed net display and optionally allows the user to cycle through the individual displays that form the sum. The inputs are all synchronised so the summed display is a true representation of the instantaneous input without skew.

Requirements

This display can connect to various RS485 DSC and DLC devices with the MantraBus II protocol. Suitable devices are: DSC4SMAN, DSC4HMAN, DLCSMAN and DLCHMAN.

The DSC and DLC devices must have sequential station numbers from 1 to the total number of devices. The default baudrate is 115200.

Configuration

This module is configured using an RS232 connection to a PC or laptop. Mantracourt's Instrument Explorer with a DS485DIS driver is used for configuration. The station number of this module is fixed at 253 and the default RS232 & RS485 baudrates are 115200

Specifications

Supply Voltage	Nominal 8 to 18V
Current Consumption (no modules connected)	Nominal 200mA max
Communications Module Communications Bus	RS485 8 data bits, 1 stop bit, no parity
Configuration Bus	RS232 8 data bits, 1 stop bit, no parity

Connecting to up to 8 DSCs using DSJ4



Product Order Codes

DS485DIS Digital Strain RS485 Display Module

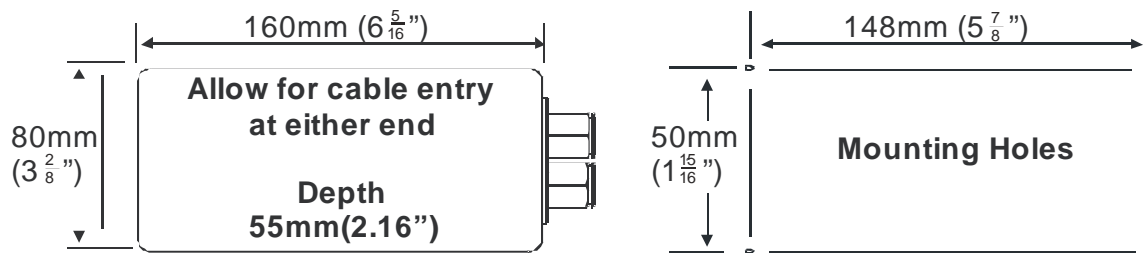
Support Modules

DSC4SMAN DSC Digital Strain Card Industrial Stability RS485 for MANTRABUS protocol
DSC4HMAN DSC Digital Strain Card High Stability RS485 for MANTRABUS protocol
DLCSMAN Dcell Digitiser Industrial Stability for RS485 MANTRABUS protocol
DLCHMAN Dcell Digitiser High Stability for RS485 MANTRABUS protocol

Physical

Case dimensions 160 x 80 x 55mm
Case materials Light grey ABS with IP65 cable glands
Terminals 2.5mm, saddle field terminals
Accessibility All electronics accessible by removing lid

Mechanical Dimensions



CE & Environmental

Storage temperature	- 20 to +70°C	EMC Emissions	BS EN 55011:1998
Operating temperature	-10 to 50°C	EMC Immunity	BS EN 61000-4-2002
Relative humidity	95% maximum non condensing		BS EN 61000-4-4:2004
Safety/Low Voltage Directive	73/23/EEC amended by 93/68/EEC		BS EN 61000-4-11:2004:1995
EMC Directive	BS EN 61010-1:2001, IEC 1010-1-1990		BS EN 61000-4-3:2
	89/336/EEC		
	Basic Standard BS EN 61326:1998		



Designed, Manufactured
& Supported in the UK



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