



## TYPE: DS485DIS



# DS485DIS Bulkhead Display for use with MantraBUS DSC/DCELL

## Description

The DS485DIS is a next generation LED display module for DSC/DCell digital load cells (RS485 input) for up to 8 DSC or DCell load cell acquisition 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.

When used in Advanced Mode, sets can be configured. This allows two sets to be configured with up to 4 devices (children) per set. Functions and statistics for each set can be configured with an overall result based on the two sets. The inputs are all synchronised so the summed display is a true representation of the instantaneous input without skew.

The display module is configured using a PC or laptop which can connect to the display's USB connection or directly connected to the display modules RS485 bus. Mantracourt's Instrument Explorer with a DS485DIS v3 driver is used for configuration. The display can connect to various DSC and DLC devices including DIS4SMAN, DSC4HMAN, DLCSMAN and DLCHMAN. The DSC and DLC devices must have sequential station numbers from 1 to the total number of devices when used in Legacy mode, but for the new advanced Set mod, the station numbers can be between 1 and 252. The default baud rate is 115200.

The module is configured using an USB connection to a PC or laptop and Instrument Explorer software. LCM Systems can supply this configured as part of a system complete with sensors, including embedded DCELLS or external DSCs. Please contact our technical team to discuss your requirements.

## Specification

Supply voltage	6 to 36 Vdc (Note that DSC & DLC have 18V max)
Current consumption (no modules connected)	200mA max
Communications Module Communications BUS	RS485 (8 data bits, 1 stop bit, no parity)
Configuration BUS	USB Virtual COM port
Display	6 digit red LED (20mm high digits)
Enclosure	Light grey ABS, with 1 off PG7 cable gland
Cable diameter range	3 to 6.5mm
Accessibility	Electronics and connections can be accessed by removing the front panel
Environmental protection	IP65
Storage temperature	-20 to +70°C
Operating temperature	-10 to +50°C
Relative humidity	95% maximum non condensing
Low Voltage Directive	2014/35/EC
EMC Directive	2014/30/EC
RoHs Directive	2011/65/EU

## Features

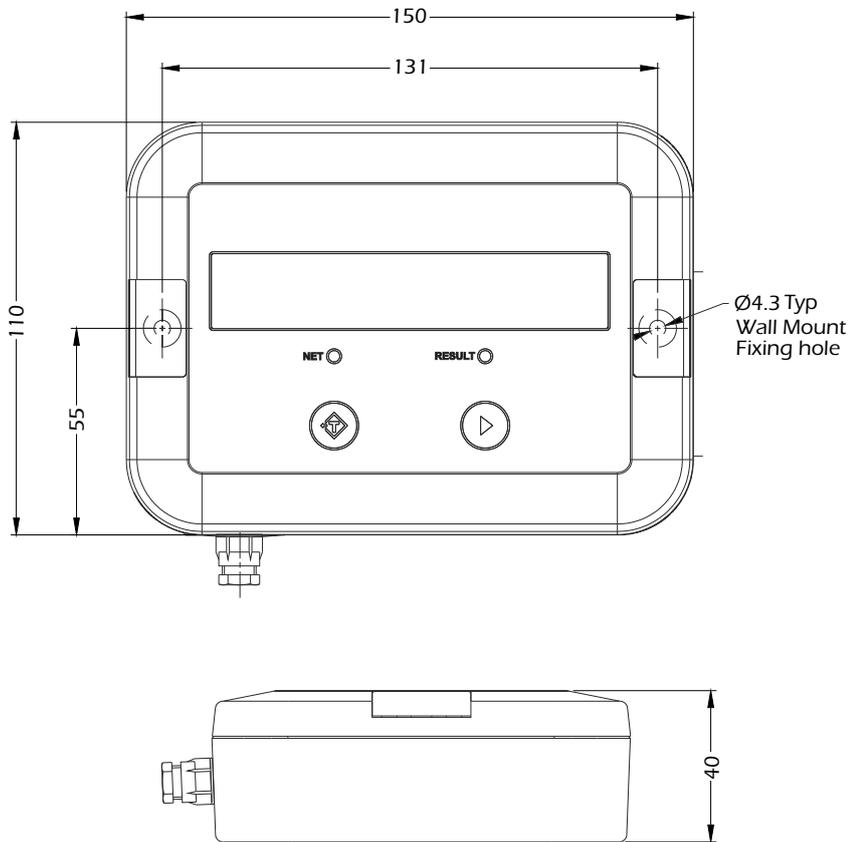
- Displays up to 8 MantraBUS DSC or DCELLS
- Display summed or individual results
- Removes the need for DSC/DLC to be permanently connected to a PC or PLC
- Synchronised sampling across devices
- Gross/net toggle
- Easy to operate toggle buttons
- 6 digit 20mm LED display in red
- Sealed to IP65
- Bulkhead mounted

## Typical Applications

- Vessel weighing
- Tank farm weighing
- Container crane weighing
- Corner weight scales

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## Dimensions



All dimensions are in mm



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Due to continual product development, LCM Systems Ltd reserves the right to alter product specifications without prior notice.

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APPROVED

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