

Multi-Function Display (RLVBDSP03-24)



The Multi-Function Display (MFD) is ideal for testing where the user needs to monitor one or more parameters live in the vehicle. The MFD allows simultaneous display of up to four VBOX data parameters. These are user selectable from the list overleaf.

Five main pages exist within the display memory. The first two pages contain a total of 8 user selectable parameters, whilst the third page indicates GPS position as latitude and longitude. A target screen, as shown below, forms the fourth page, indicating how far the vehicle is from a user-defined parameter.



There are a further eight configurable test screens, where the test profile of each screen can be configured and named to allow quick and easy access to the results of typical performance tests like 0-60 mph, ¼ mile, etc.



Dimensions

Height	65 mm
Width	170 mm
Depth	35 mm
Mounting	Either Velcro mounting suction cups or ¼ - 20 screw mounting
Weight	Approx. 400 g / 14.1 Oz
Display	20 x 2 Line LCD with contrast control and adjustable backlight
Power Input Voltage Range	12/ 24 V DC (±10 %)

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Parameters which can be measured

General parameters

- Satellites
- Time
- Latitude (degrees minutes seconds)
- Longitude (degrees minutes seconds)
- Velocity (speed over ground, km/h or mph)
- Vertical velocity (km/h or mph)
- Heading (degrees north)
- Height (meters or feet)
- Lateral acceleration (g)
- Longitudinal acceleration (g)

Brake test specific parameters

- Time between two speeds (s)
- Distance between two speeds (m or feet)
- Distance from brake trigger to rest (m or feet)
- Corrected distance (to nearest whole 5 km/h or mph)
- Time from brake trigger to rest (s)
- Speed at which brake trigger is pressed (km/h or mph)
- MFDD
- Peak G
- Average G

Acceleration parameters

- Time between two speeds (s)
- Time to set distance (1/4 mile, 400 m, etc.)

External module parameters

- 8 Temperatures from thermocouple module (degrees Celsius)
- 8 Voltages from analogue module (volts)
- Yaw rate (from CAN yaw rate sensor, degrees per second)
- Lateral Acc. (from CAN yaw rate sensor, g)

Lap timing parameters (all 0.1s resolution)

- Last Lap time
- Best lap time
- Current time
- Last 20 lap times
- 6 Split times
- Velocity at end of lap (km/h or mph)
- Velocity at splits 1-6 (km/h or mph)

Package Contents

Description	Product Code
LCD Multi-Function Display	VBDSP03-24
5 way Lemo to 5 way Lemo plug	RLCAB0005
Bohle Suction Mounting	RLVBACS041