

# Multi Function Display (RLVBDSP03)



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 0-60Mph, 1/4mile etc.



## Dimensions

Height	65mm
Width	170mm
Depth	35mm
Mounting	Either Velcro mounting suction cups or ¼ - 20 screw mounting
Weight	Approx 400g / 14.1oz
Display	20 x 2 Line LCD with contrast control and adjustable backlight

# Multi Function Display

(RLVBDSP03)



## Parameters which can be measured

### General parameters

- Satellites
- Time
- Latitude (degrees minutes seconds)
- Longitude (degrees minutes seconds)
- Velocity (speed over ground, kmh or mph)
- Vertical velocity (kmh 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 5kmh/mph)
- Time from brake trigger to rest (s)
- Speed at which brake trigger is pressed (kmh or mph)
- MFDD
- Peak G
- Average G

### Acceleration parameters

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

### 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 (kmh or mph)
- Velocity at splits 1-6 (kmh or mph)

### 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)

## Package Contents

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