

# OB-350 Loadrunner™ Series Onboard Weight Indicator



The OB-350 onboard weight indicator is simple to operate and suits all kinds of commercial vehicle operations. It gives drivers precise weight information where and when its needed. Equipment such as trackers, printers, data recording devices and telemetry systems are easily linked for maximum vehicle utilisation and efficiency.

### Power and Operate

The OB-350 indicator has an power button, it can also be permanently powered through the ignition. Turn ignition on or press the power button and the software version and serial number appear in the 10 second welcome screen. The vehicle's gross weight will then display. Take weight readings when the vehicle is static and on level ground.

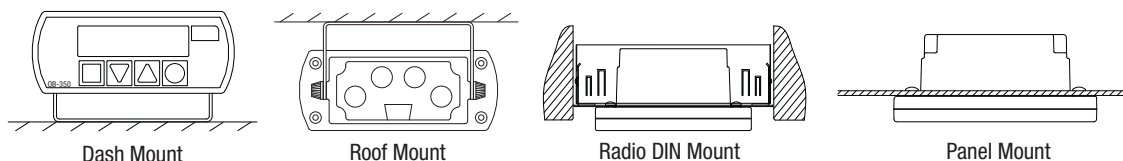
## STANDARD FEATURES:

- Simple to operate
- Multiple mounting options
- RS-232 interfaces for thermal printer and PC
- For use on dump truck, roll-off & straight truck applications

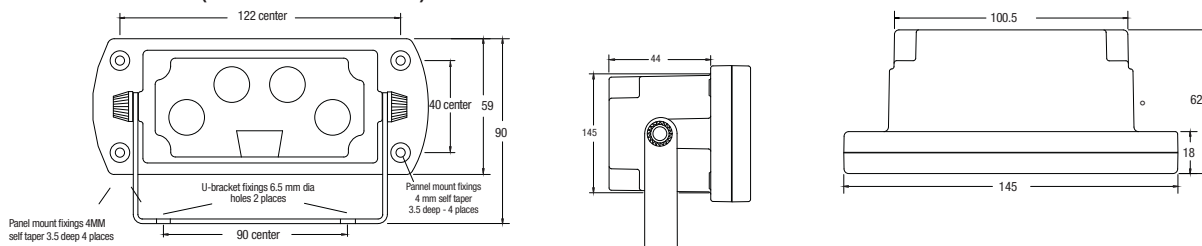
## OPERATING MODES:

- Pitch or roll inclinometer, up to 6 degrees
- Onboard load cell diagnostics
- Two configurable audible alarms
- Display modes: net, gross, net & gross, inclinometer, load/delivery function
- Reverse zero span calibration

### Mounting Options



### Dimensions (shown in millimeters)



## SPECIFICATIONS:

### Power

Voltage: DC input 8V to 40V  
 Consumption: 38 mA at 24V DC typical  
 Fused: PCB mounted resettable fuse rated @ 300mA

### Display

Format: 256x64 dots  
 Color: yellow monochrome  
 Size: 3.12"  
 Temp: -30°C to 85°C  
 Contrast: adjustable, high, medium or low

### Keypad

5 key, membrane keypad with soft keys on the display and power

### Analog Inputs:

Channels: 2 independent 24 bit sigmadelat ADCs  
 Excitation: +5V DC

Input: 8x350 ohm load cells per channel  
 PGA/Range: 128/differential +/-39.0625mV  
 Sample Rate: 62Hz  
 Resolution: (ENB) 18 bits (91.5 bits)  
 Grain Drift: +/-1ppm per degree typical  
 CMMR: 100dB minimum

### Digital:

Microprocessor: PIC18F4685 @ 24MHZ  
 RTC: NVRAM battery backed up  
 EEPROM: 12C serial EEPROM 128K/bits  
 Digital Filter: 1 fixed IIR filter

### Outputs

Alarm 1: configurable active high/low supply voltage high side switch  
 Alarm 2: configurable active high/low supply voltage high side switch

### Interfaces:

CAN Bus  
 Physical Bus Layer: CAN 2.0B active, 29 bits EXID, 250KHZ  
 Format: VWS protocol

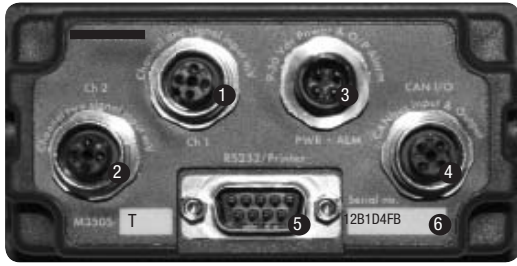
### RS232 Serial:

Baud Rate: Baud Rate fixed at 9600, n, 8, 1  
 Options: printer or format protocol  
 Connector: 9 way D connector

### Enclosure:

Dimensions: see diagram  
 Weight: 260 gramms (with full connectors option)  
 Material: ABS

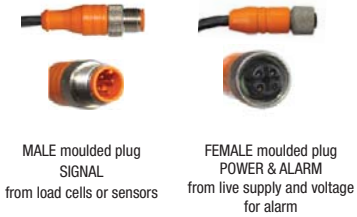
# OB-350 Loadrunner™ Series Onboard Weight Indicator



- 1 Input Channel 1, Max +/-39.0625 milli-Volts (analogue)
- 2 Input Channel 2, Max +/-39.0625 milli-Volts (analogue)
- 3 Power Input & Alarm Output
- 4 CANbus digital input & output
- 5 RS232 output for printers and data capture devices  
(pin 9 = vehicle volts, pin 5 = ground, pin 2 = transmit, pin 3 = receive)
- 6 Alpha-numeric unique indicator serial number, also appears on power-on

## Connectors

OB-350 connectors are key-wayed, gendered and thumb tightened for ease of use. System kits are fully moulded. This data sheet shows cable wiring configurations for onboard and PM systems when using interchangeable rewirable plugs.



MALE moulded plug  
SIGNAL  
from load cells or sensors

FEMALE moulded plug  
POWER & ALARM  
from live supply and voltage  
for alarm

## PART NUMBER/PRICE

PART #	DESCRIPTION	PRICE
131219	OB350 two channel indicator, RS232 can bus interface (does not include power cable)	\$650.00
131221	Replacement power cable	28.00
131802	Assembly in-line power cable with fuse (requires purchase of PN 131803 & 131802 for new install)	28.00
131803	OB-350 DIN mount frame galvanized for dashboard mounting bracket (requires purchase of PN 131803 & 131802 for new install)	20.00
160914	User manual	0.00

ONBOARD WEIGHING