HELINAV LOADMASTER

Wireless Load Sensor Receiver Interface

The wireless *HELINAV LOADMASTER* Receiver Interface is used in conjunction with the *HELINAV LOADMASTER* wireless Load Sensor. It provides the user with an easy way to receive and output data from the Load Sensor. Enclosed in a hardwearing aluminium box the receiver is suitable to be installed into environments where it may be subjected to harsh conditions.

The receiver is easy to install as it only requires DC power to be supplied to the unit. An SMA connector allows the use of an external antenna.

The receiver outputs a string of data from the Load Sensor which includes: Serial number, full scale, Load, Temperature, RSSI and battery voltage. The data is constantly outputted from the receiver straight from "power on" as long as the Load Sensor is in range. The output can be provided as either RS232, RS422, USB or Analog. The interface is suitable for applications where no user interaction is needed and data is fed into a third party data logger or remote display.

Benefits

- Small Footprint (133mm x 67mm x 43.5mm)
- Receives data up to a distance of 100m
- Receives data at 10 times a second
- Analog or digital data outputs
- Minimal startup time
- Very simple installation
- Operates on 2.4GHz licence free band

Technology

The *HELINAV LOADMASTER* Load Sensor works in the worldwide harmonized band of 2.4 GHz so does not require a licence to operate and uses advanced technologies to enable data to be sent and received error free, these include, forward error correcting and data whitening.
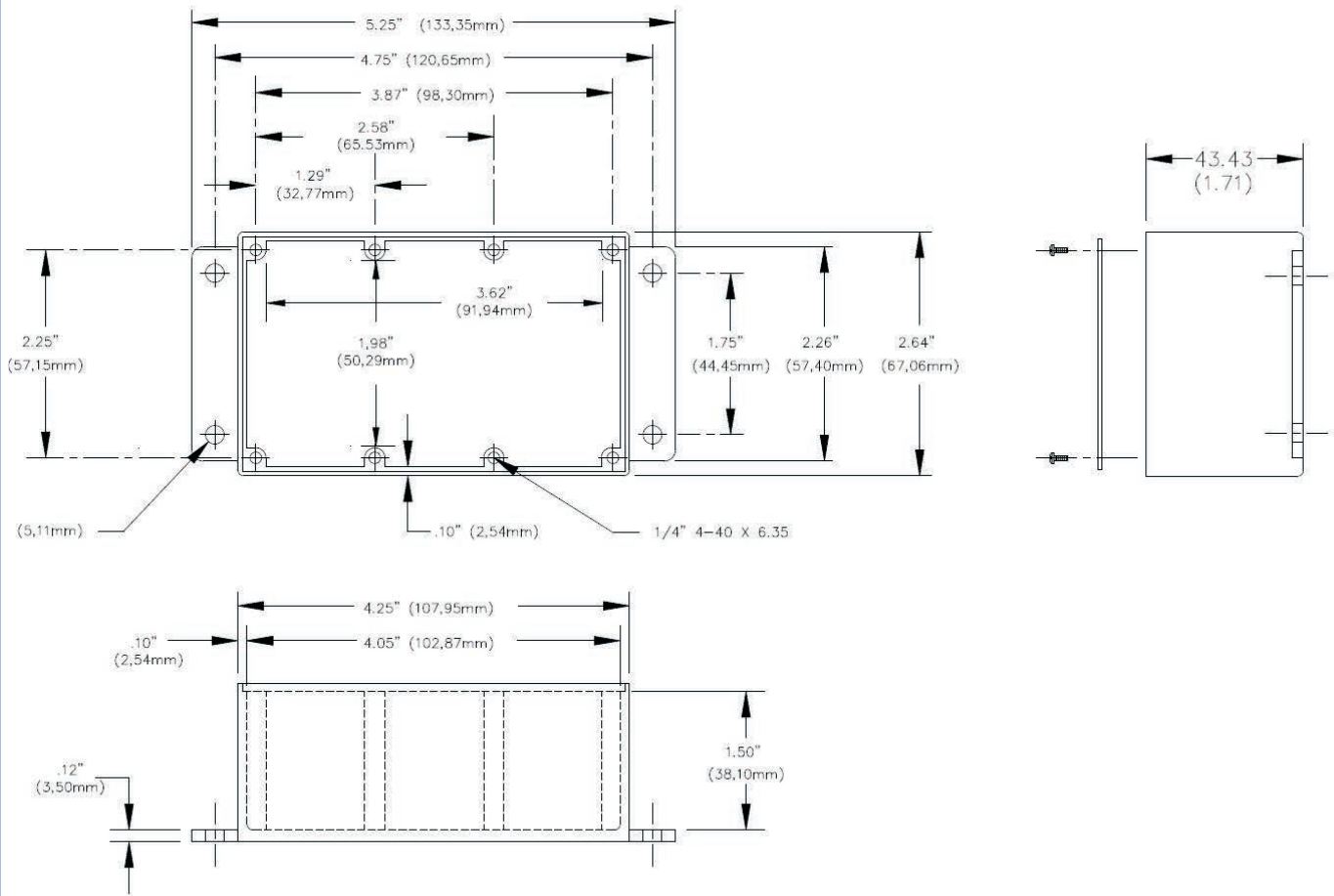
SENSOR TECHNOLOGY

Apollo Park, Ironstone Lane, Wroxton, Banbury, Oxfordshire, OX15 6AY, UK

Tel: +44 (0)1869 238400
Fax: +44 (0)1869 238401
Email: info@helinav.com

WWW.HELINAV.COM

Mechanical Data

Technical Data
RF

Receiver Sensitivity	-89 dBm
Frequency Range	2425 - 2430 MHz 20 Channels 250kHz steps
Connector	SMA

Data output options

	Baud rate	Pin 1	2	3	4	5	6	7	8	9	Connector D9P
RS232	9600	nc	RXD	TXD	nc	GND	nc	nc	nc	nc	
RS422	9600	TX-	TX+	RX+	RX-	GND	nc	nc	nc	nc	
Analog Out	NA	OUT	GND	nc	nc	nc	nc	nc	nc	nc	
USB B		VBUS	D-	D+	GND	nc	nc	nc	nc	nc	

Power Input

	Current	Surge Voltage	A	B	C	Connector
11-28 VDC INPUT	60mA	100 VDC, 100 mS Max PER DO160-F	INPUT	GND	SHIELD	
Socket Type	Amphenol GB 62GB-16F8-33S (standard MIL type)					

Environmental Protection	IP54		
Weight	332 Grams		
Materials	Aluminium		
Operating Temp Range	-20ºC to + 55ºC	Storage Temp Range	-40ºC to + 85ºC
RFI / EMC	To EN301-489 1		

Sensor Technology Ltd reserves the right to change specification and dimensions without notice.