HELINAV LOADMASTER

Wireless Load Sensor

The wireless HELINAYLOADMASTER Load Sensor is a strain gauge based stainless steel tension type sensor. It has the capability of wirelessly transmitting its data to one of our compatible readouts and displays or recording its data internally. Its inbuilt 32MBit memory can hold up to 280 hours of data which can then be downloaded to a PC via its USB cable. The HELINAYLOADMASTER Load Sensor works in the worldwide harmonized band of 2.4 GHz using two built-in antennas 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.

The *HelinayLoadMaster* Load Sensor is also compatible with our *HelinayLoadMaster* Handheld Receiver which can read several devices at the same time, (see data sheet HLM3597R for more details) and our stand alone Receiver Interface which can be used to output the data via RS232/RS422 (see data sheet HLM3598R for more details) or if used with our 7" touchscreen display (data sheet HLM3732R) it can be used for very advanced features using our software for GPS track guidance as well as more advanced load capabilities. The Load Sensor display (HLM3751R) is able to display a simple load value in multiple formats, which are user selectable.

Benefits

- Wireless, so easy to install and remove between aircraft
- Transmits data up to a distance of 100m
- Transmits data at up to 10 times a second
- Internal Memory for up to 280 hours of data
- 11-28V external supply chargeable
- Connect to PC via USB
- PC software for customer settings
- Flexible automatic shutdown to conserve battery
- Dual ruggedised internal antennas
- FCC Part 15
- Import data into Excel



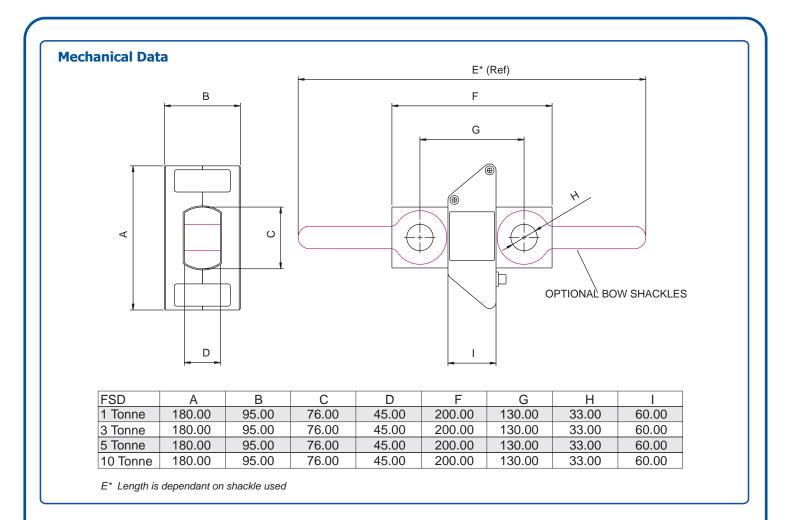




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Technical Data

Nominal Load	1,3,5,10 Tonne	
Accuracy	± 0.25%	
Max Overload	150%	
Breaking Load	> 300%	
Temp Coef of Zero	0.05% Deg C	
Temp Coef of Span	± 0.01% Deg C	

IP65
5 Kg
Stainless Steel / Aluminium
-10ºC to + 50ºC
-20°C to + 60°C
32 Mbit

RF

Transmitter Output Power EIRP	+10 dBm
Frequency Range	2425 - 2430 Mhz 20 Channels 250kHz steps
Modulation	MSK
Data Rate	250Kbps
Antenna	Dual patch antennas
RFI / EMC	To EN301-489 1, FCC Part 15, RSS

Power Input

	Charge Facilities		
i-Ion Varta LIC18650	Connector	External Power	
3.7V 2200mAH	Voltage	11-28V	
perating time at 20°C	Charge time	3 hours	
1000 Hours +		Lead for data transfer and external power input is provided.	
120 Hours			
3	.7V 2200mAH erating time at 20°C 1000 Hours +	.7V 2200mAH erating time at 20°C 1000 Hours + Lead for data transfer and external	

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