





## Wireless Technology TELEMETRY and LOAD MEASUREMENT











A relevant alternative to wired sensors

Improved sealing and reliability: No weaknesses due to the cable. No risk of moisture ingress. Sufficient battery life for most applications.

- Wireless transmission,
- Quick and easy to implement,
- Extended sensor range and options,
- Unlimited connectivity and data usage possibilities,
- High accuracy,
- Extended battery life,
- Highly configurable to your needs,
- Compact, lightweight.



BRETAGNE DÉVELOPPEMENT INNOVATION



Eco-designed and made in Brittany/France Durable - Repairable - Reconditionable - Recyclable

Une solution DEVELOPMENTS

### **FensEazy sensors** Ultra-compact for all applications

A very large range of standard wireless loadcells



Accuracy over the measuring range		higher than <b>0.1%</b>	Power ON/OFF	Always ON by default		Clip-on pad for switching off the sensor :		
Maximum no-linearity on full scale (FS)		lower than <b>0.1%</b>	Battery	1 battery by default	2nd battery as option	Zero power consumption. Supplied with every sensor.	Idinitizia Magnet pad Profession Brannicott	
Resolution on full scale (FS)	14.25bits	Adjustable from 6 (0.015%) to 16.75bits (0.003%)	Charge battery	Wireless charging with compatible Qi station.				
Load data given in Kg force (default) or any other unit (on request)			Charging time	2h	4h	Optional TensEazy clip-on charger.		
Specific calibration certificate provided for each sensor			Battery life between 2 charges @ 14.25 bits (hours)					
TRANSMISSION			TX Frequency	1 battery	2 batteries	Held in position by elastic	elistat	
	User setting :		1 per 10 seconds (0.1Hz)	11600	23200	band.		
			1 per 5 seconds (0.2Hz)	5800	11600	5vdc power supply. Micro USB connector.		
Transmission frequency			1 per 2 seconds (0.5Hz)	2320	4640			
	7 availat	ble frequencies + standby mode	1 per second (1Hz)	1160	2320			
	An LED clearly indicates the	3 per second (3Hz)	387	774		ENVIRONMENT		
	selected transmission frequency		5 per second (5Hz)	233	466	Operating temperature	-10 to +50°C	
			10 per second (10Hz)	116	232	Storage temperature	-30 to +60°C	
			Standby mode	>2 ans	>4 ans	Protection	IP68	

The TensEazy® App interface creates uncluttered dashboards for hands-on measurement on Smartphones or Tablets

- Displays the current load, max and min values or other expressions from many math functions
- · 2 configurable threshold values for coloured warning indicators
- Highly configurable dashboards : Numeric, gauge, bar graph, indicator, historical trend
- · Supports many sensors
- Basic recording of displayed data (\*.csv file)
- Access to advanced sensor settings
- · Android and iPhone compatible

The TensEazy® gateway allows the load data received to be fed into most navigation instruments and the onboard display network.

- NMEA2000, NMEA0183, NKE compatible
- Multiple sensors supported
- Basic data logging for post-processing/replay (\*.csv file)
- IP66 protection
- Easy set-up by Wifi (webserver)
- 4 LEDs for status indication and TX/RX activity
- Dimensions (mm) : W100 x H100 x D28

The TensEazy® logger collects data from the TensEazy sensors as well as data from the nav instruments. This data is synchronised and recorded.

- NMEA0183 and NMEA2000 compatible (Instrument data IN Load Data OUT)
- Recording in \*.CSV files(direct import into MS/Excel<sup>®</sup>)
- · Multiple simultaneous recordings allowed
- Advanced settings of the log files (data selection, frequencies, triggers, etc...)
- Data file recovery with a USB stick or FTP (Ethernet connection)
- External power supply, from NMEA2000 bus, or optional rechargeable battery
- Dimensions (mm) : W138 x H120 x D37

The TensEazy Hub allows standard wired loadcells to be connected and the data to be transmitted wirelessly to all TensEazy compatible receivers. It can also be used to control actuators or other devices from relay outputs.

- Up to 6 analog inputs (0-10v or 0-5v)
- Up to 3 strain gauge inputs (mV/V)
- Up to 2 relay outputs
- Multiple TensEazy hubs can be used simultaneously
- External 12/24vdc power supply or rechargeable battery
- Dimensions (mm): W100 x H100 x D40

The TensEazy module enables a single wired load cell (mV/V signal) to be connected wirelessly to all

TensEazy-compatible receivers. Similar components and operation to TensEazy wireless sensors.

- 1 input strain gauge conditioner (mV/V)
- Several TensEazy modules can be used simultaneously
- Internal power supply by 1 or 2 batteries with wireless charging (Qi charger)
- IP68 protection
- Dimensions (mm): W33 x H33 x D25













# **Unlimited connectivity**

Direct wireless connection to ...

- an Android or iOS smartphone and tablet running the TensEazy app,
- the TensEasy Gateway,
- a Windows-Linux-macOS PC running a monitoring interface built with ODxI,
- any controller from the ODS product line,

Sail Control

**Indirect connection** to most marine electronic brands throught the TensEazy Gateway or the ODS controllers.



MAD TEC SAILMON Vakaros

Raymaríne

Install





### **B&G** Safety Warning System

TAIR EN

TensEazy is obviously compatible with the B&G's alert function, which allows you to see briefly whether you are sailing safely (green), approaching the limit (orange) or exceeding it (red).

### Special projects and custom developments

Ocean Data System offers the widest range of solutions for instrumentation, security, and control/command, allowing it to respond quickly and cost-effectively to any special project.

Our engineers design and produce your bespoke wired or wireless sensors, devices, controllers and user interfaces precisely tailored to your needs and requirement.

- Competitions
- Yachting
- Marine Industry
- EMR
- Industry
- Others...





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### **Contact our sales team**

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