

QE2008-W SET

SYSTEM FOR STRAIN MEASUREMENT WITH BLUETOOTH TRANSMISSION





Main features:

- Wireless system for strain measurements with Bluetooth 5.0
- Press-on strain gauge technology (quick and non-destructive mounting)
- Easy mounting via magnetic holding on flat and round surfaces (diameter ≥ 45mm)
- Visualization of the measurements via the "Sensormate App" (available for Windows, Android and iOS)
- High performance amplifier integrated in each sensor with high resolution and fast sampling rate
- Integrated LiPo battery with long operating time (> 12h)
- Integrated accelerometer for mounting guidance

The magnetically mounted wireless strain sensor QE2008-W measures the strain directly at the location where is mounted, providing a measurement that has the same quality and performances as with bonded strain gauges. The Sensormate press-on technology implements a strain gauge positioned under a stainless protective film. When the sensor is mounted on a metallic object, the magnets hold so strictly that frictional contact occurs and allows a reliable measurement.

The mounting of the sensor is quick, simple and non-destructive, allowing for an easy setup and increasing the daily productivity.

The integrated electronics contains a state-of-the-art processing component, which allows hi-end measurements and wireless communication via the Bluetooth 5.0 protocol. The adopted components allows for a low-energy operation, extending the battery life to several working hours.

An on-board accelerometer allows the user to check the correct mounting of the sensor and assure an accurate measurement result. The internal RAM memory helps when a fast measurement is needed, allowing to store high resolution data.

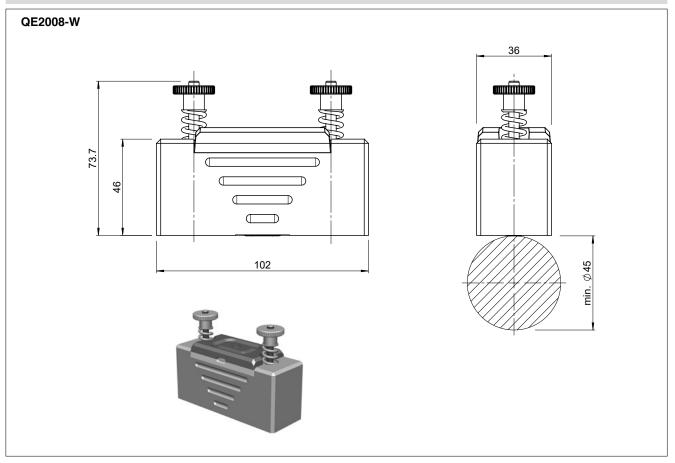
Typical Applications:

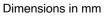
- Injection-moulding machines
 - Tie Bar parallelism check
 - Bending analysis
 - Cavity pressure profile inspectionTie bar cracks detection
- Die casting machines
- Presses
- Structural monitoring
- Indirect load and force measurement

Please check the user manual for the typical applications and mounting instructions. (www.gefran.com) (instead of hyperlink)

TECHNICAL DATA SENSON				
Measuring range	± 800με			
Output signal for radio transmission	Bluetooth 5.0			
Signal range	Bluetooth specification: >100m			
Resolution	0.1με			
Accuracy	< ± 0.5% FS			
Linearity	< ± 0.5% FS			
Repeatability	<0.2% FS			
On board power supply	Integrated LiPo battery 3.7V 330mAh.			
Charging specification	5V, 175mA			
Temperature at charging	045 °C			
Operation temperature	-2065 °C			
Storage temperature	-2045 °C (030 °C recommended in case of storage for more than 3months)			
Overload capability	unlimited			
Type of protection	IP40			
Material: Housing	Aluminium			
Material: Cover	Plastic			
Weight	460g			

DIMENSIONS SENSOR





TECHNICAL DATA WIRELESS PROTOCOL

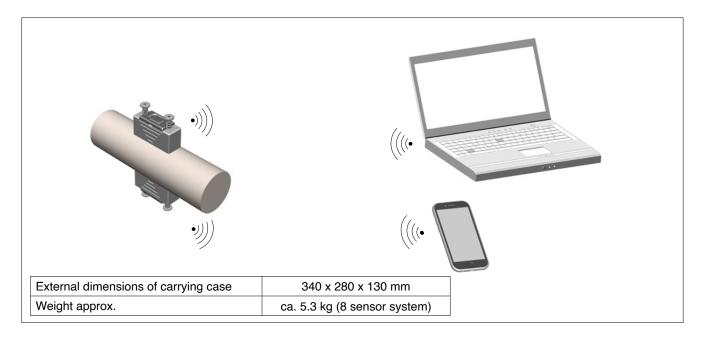
Frequency	2.4000-2.4835 GHz (ISM-Band)
Protocol transceiver to end device	Bluetooth 5 (low energy)
End device compatibility	Sensormate App: - Windows 10 or newer - Android 6.0 or newer - IOS 8.0 or newer
TX-power	8dBm
Range	Bluetooth 5, theoretical up to 300m (Typ. 30 m) "

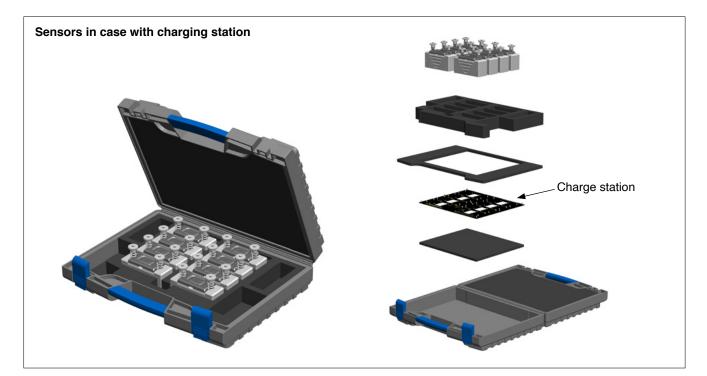
SYSTEM CONTENT

QE2008-W-SET

Content

- Magnetically mounted wireless sensors QE2008-W
- · Charging station, USB-C cable (1 m) and USB wall adapter
- Carrying case with inserts, manual





ORDER CODE

Magnet mount strain sensor complete system	QE2008
Connection	
Wireless	W
Number of sensors	
2 pieces	02
8 pieces	08
9 pieces	09
10 pieces	10

ADDITIONAL ACCESSORIES

Description	Order code	Code
Magnet-mount strain sensor	QE2008-W	F089015
USB-C power supply kit		F092416

GEFRAN spa reserves the right to make any kind of design or functional modification at any moment without prior notice.



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