

QE1008-W SET

SYSTEM FOR TIE BAR MEASUREMENT WITH WIRELESS TRANSMISSION





Main features:

- Complete system for the simultaneous strainmeasurement on up to four tie bars
- Direct display of strain values in με, kN or t (via our Inspectmate software or Sensormate App)
- Wireless transmission (2.4GHz), no cables
- Quick and non-destructive assembly with magnetic press-on technology
- High accuracy and linearity in tension and pressure (like bonded strain gauges)
- Ideal for use on presses, injection-moulding and die-casting machines
- Application on tie bars with a diameter of 45mm or higher and flat surfaces
- Dynamic applications
- Each magnetic-mount strain sensor has an integrated signal amplifier
- Integrated rechargeable battery with up to 8h operating time
- Receiver with USB interface or receiver with bluetooth 5 low energy interface
- Very compact and easy to use system

The magnetic strain gauge sensor QE1008-W measure the surface-strain directly at the mounting location in the same quality as bonded strain gages. The magnetic press-on technology, developed by Sensormate AG, presses the strain gauges under the stainless protective film so strongly against the surface to be measured that frictional contact occurs.

The mounting of the sensor is non-destructive, very fast and simple. The integrated signal amplifier with wireless transmission module makes the QE1008-W a state-of-the-art sensor with unsurpassed features and user-friendliness.

Strain gauge type Foil (GF = 2.0) Bridge resistance 350Ω Measuring range ± 800με Output signal for radio transmission IEEE 802.15.4TM Up to 100m (depending to operating area) Signal range ± 0.2% Sensitivity tolerance Transverse sensitivity 0.9 ± 0.2 % Accuracy < ± 0.5% FS Linearity < ± 0.5% FS Hysteresis < ± 0.5% FS Repeatability < 0.2% FS 2x 1.2VDC (2x AAA rechargeable battery) Operating power consumption 100...230VAC Charger power consumption 5...65°C Ambient temperature 0...65°C Storage temperature Overload capability unlimited Type of protection IP40 Material: Housing Aluminium Plastic Material: Cover 530g Weight

TECHNICAL DATA SENSOR

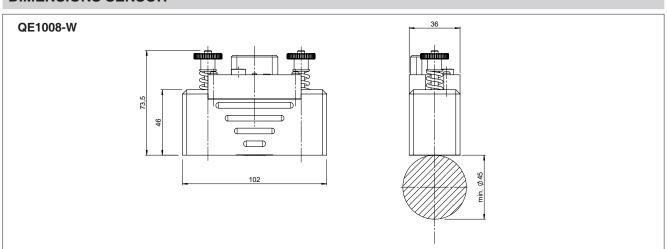
TECHNICAL DATA TRANSCEIVER-MODULE

	QE1008-W-USB-G	QE Booster	
Max. pairable sensors	8	8	
Power supply	External via USB (5.0 VDC-500 mA) Stand alone with integrated litiu battery		
Connector type	USB-A male	USB-C female	
Battery type	-	LiPo 3.7V 340 mAh	
Battery life	-	12 h	
Charging time	-	~ 2 h	
Charging requirements	-	USB (5.0 VDC-500 mA)	
Protection class	IP40	IP40	
Case material	Plastic	Plastic + holding magnets	
Weight	100g	50g	

TECHNICAL DATA TRANSMISSION

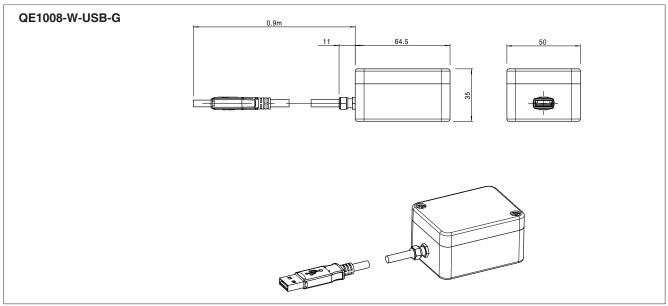
	QE1008-W-USB-G	QE Booster	
Frequency	2.4000-2.4835 GHz (ISM-Band)	2.4000-2.4835 GHz (ISM-Band)	
Protocol sensor to transceiver	IEEE 802.15.4TM	IEEE 802.15.4TM	
Protocol transceiver to end device	USB 2.0	Bluetooth 5	
End device compatibility	Windows XP/7/8/10	Android 4.3 (Bluetooth 4) or newer	
TX-power	0dBm / 1 mW (max.)	0dBm / 1 mW (max.)	
Range	For IEEE 802.15.4TM theoretical up to 100m (Typ. 30 m)	"For IEEE 802.15.4TM theoretical up t 100m (Typ. 30 m) For Bluetooth 5 theoretical up to 300m (Typ. 30 m) "	
"The transmission module is FCC (US/ The MAC address is always unique an	A), IC (Canada), ETSI (Europe) and TELEC d burnt into the hardware."	C (Japan) certified.	

DIMENSIONS SENSOR



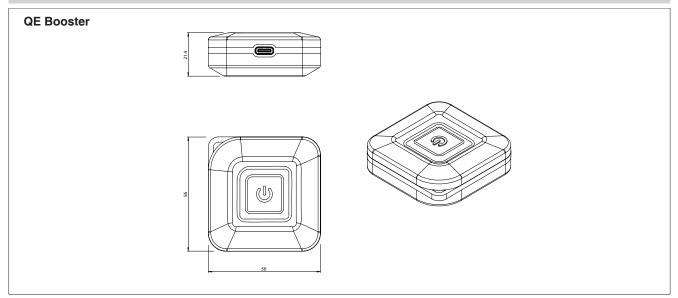
Dimensions in mm

DIMENSIONS USB TRANSCEIVER-MODULE



Dimensions in mm

DIMENSIONS BLUETOOTH TRANSCEIVER-MODULE



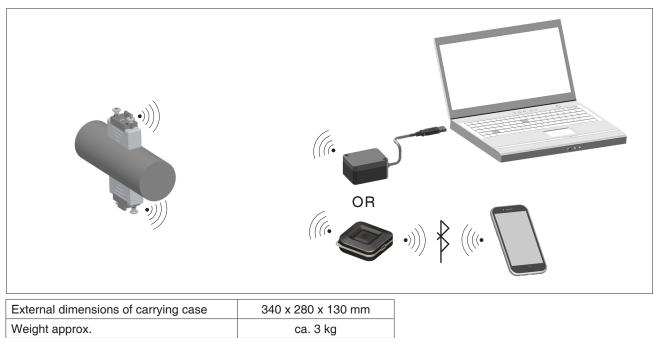
APPLICATION

QE1008-W-SET

- Very flexible system for measuring tie bars and also flat surfaces.
- Detecting cracks on tie bars.
- No steel bands or other mounting aids are required.

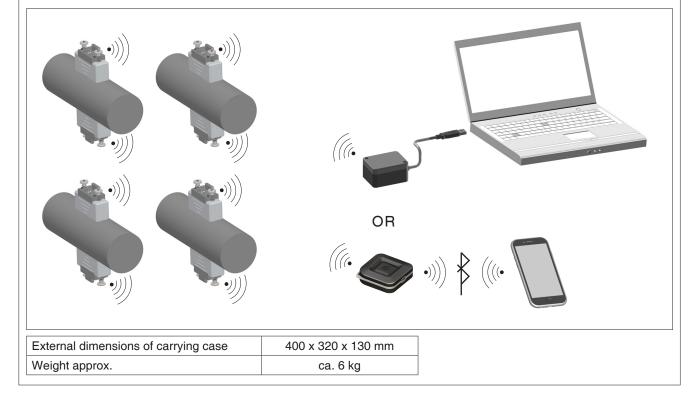
System containing with two sensors:

- "USB" or "Bluetooth transceiver-module"
- 2 magnet-mount strain sensors QE1008-W incl. rechargeable batteries
- Carrying case with inserts, manual
- Alignment software, Inspectmate



System containing with 4...10 sensors:

- "USB" or "Bluetooth transceiver-module"
- 4...10 magnet-mount strain sensors QE1008-W incl. rechargeable batteries
- Carrying case with inserts, manual
- Alignment software, Inspectmate



ORDER CODE

Magnet mount strain sense complete system	Or QE1008
Connect	ion
Wireless	W
Number of s	ensors
2 pieces	02
4 pieces	04
8 pieces	08
9 pieces	09
10 pieces	10
Transceiver -	Module
USB	USB
Bluetooth	BLE

ACCESSORIES

Description	Order code	Code
Magnet-mount strain sensor	QE1008-W	F065869
USB transceiver-module	QE1008-W-USB-G	F061962
Bluetooth transceiver-module	QE Booster	F081356
Charge bar	CB-4-QE1008-W	F062885
Charger for charge bar	POWER SUPPLY	F069657
Repair-Kit foil	REPAIR-KIT FOIL	F060472

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



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