



INPUT VIBRATION AND TEMPERATURE

PERFORMANCE

Mounted Base Resonance	22 kHz M6 tapped hole
Sensitivity	100 mV/g ±10% Nominal 80 Hz at 22 °C
Frequency Response	2 Hz to 10 kHz ±5% 0.8 Hz to 15 kHz ±3 dB
Electrical isolation	Base isolated
Measurement Range	±80 G
Temperature data	10mV/°C 140°C Sensitivity 1°C Accuracy 1%

ELECTRICAL

ICP Electrical Noise	0.1 mG max
Current Range	0.5 mA to 8 mA
Bias Voltage	10 - 12 Volts DC
Setting Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts



At every level, we care about data quality and data security. Wi-care™ offer the most recognized security standards and show incredible levels of vibration data quality. The resolution and response of the Wi-care™ spectrum surpasses many of the present portable data collectors and is equal to the best ever produced.

SECURITY -CERTIFICATION

Web platform	Access to dedicated login code
Certification	CE Approved

SPECTRUM

Frequency definition (via web platform)	0 to 16 kHz
Spectrum Resolution	100 to 16000 lines
Very high waveform Resolution	200 to 32000 points

OPERATING CONDITIONS (Transmitter & Range extender)

Humidity	0-95%
Operating Temperature	-30°C to 85 °C
Protection	IP 65
Environment	Resist on aggressive environment

PHYSICAL (Transmitter & Range extender)

Transmitter Weight	185 gr without sensor
Length x Width x Height	65 x 65 x 59 mm
Transmitter case material	Polymer components

WI-CARE™

THE FLEXIBLE VIBRATION TRANSMITTER

WI-CARE™ ASSOCIATED SERVICES:

Wi-care™ is promoted by I-care™ as the new tool for remote 24/7 Condition Monitoring. We consider the purchase of the vibration and temperature wireless system to be the base of your cost effective condition monitoring/diagnosis partnership with I-care™. In addition to the commissioning of the system, we can offer a complete package of services including the reference acquisition/analysis, strategy set up and a training course on the Wi-care™ System. With access to the Wi-care™ remote diagnosis team, I-care™ can provide total spectrum analysis, machinery health diagnosis and maintenance advice.



I-care headquarters

Rue R. Descartes
7000 Mons - Belgium
T. +32 (0)65 45 72 14
BE@icareweb.com



I-care Deutschland
Aachen

T. +49 (0)241 963 2815
M. +49 (0)178 66 36 303
DE@icareweb.com

I-care France
Valenciennes
M. +33 6 32 60 86 35

Aix-en-Provence
T. +33 4 42 16 60 48
FR@icareweb.com

I-care Italy
Salò (BS)

T. +39 0365 448870
IT@icareweb.com

I-care Poland
Kraków

M. +48 602 763 605
PL@icareweb.com

I-care South Korea
Seoul

M. +82 10 2185 8889
KR@icareweb.com

I-care Switzerland
Neuchâtel

T. +41 (0)32 535 90 14
M. +41 (0)79 627 06 15
CH@icareweb.com

www.icareweb.com - www.wirelessvibration.eu



WAKE UP YOUR SENSORS ...

... OUR TEAM IS LISTENING!



I-care™ is proud to introduce Wi-care™ spectral vibration and temperature wireless transmitter. Thanks to more than 10 years of industrial experience in condition monitoring, Wi-care™ has been established to monitor vibration spectra and temperature accurately, safely and cost effectively in inaccessible locations and extreme conditions. Wi-care™, designed and built 100% by I-care™, will provide an alternative solution to manual data collection or temporary online monitoring. Wi-care™ offers the highest diagnosis capabilities and reduces non value-added costs of mounting, cabling and travel costs.

As Wi-care™ is compatible with the vast majority of Industry standard vibration sensors, it will provide a wireless solution in less than a minute!

Wi-care™ 24/7 remote diagnosis services represent a very flexible solution allowing you to receive maintenance recommendations through periodical or "on event" data analysis.

www.wirelessvibration.eu



The System provides an innovative web platform access using either QR code reading (via a smartphone); a touchscreen gateway option, or any web access. This would apply whether you are on-site CBM Specialist looking for instant value and trend (QR code); a control room operator tracking any malfunction alarm (touchscreen) or a reliability engineer reading data and receiving reports from their office via the web platform. With Wi-care™ solution you have your reliability and machinery health KPI's, even when away from the office.

WI-CARE™ TRANSMITTER

All in one transmitter	Vibration data, ambient temperature, sensor temperature
Network organization	Self-organizing network
Plug and play installation	Magnetize and receive data
Wireless RPM	Provide velocity data using the dedicated Wireless tachometer
Quick onsite smartphone visualization	See your data live on your cell phone by scanning the QR code
Use of actual installed sensors	Compatible with any ICP accelerometer. Compatible with any sensitivity, no hardware modification.
No software maintenance	Always up to date Web based platform
Operating life	5 years battery life time with data every 2 hours including spectrum 1600 lines 0-2000Hz
Battery	Battery level on web platform. Battery life calculator available on web platform



The absence of software, coupled with the ability to view and configure by a unique web platform, ensures that Wi-care™ is the most flexible vibration wireless system on the market today.

Using I-care™, you can go for a zero cable policy, Wi-care™ Transmitter gives you a complete “all in one” wireless device, vibration level and high resolution spectrum, bearing parameter value, ambient temperature and machine temperature.

Wi-care™ network is self-organized to carry the information via relay to the gateway. In the unlikely event of range extender failure, the Network density ensures the success transfer of the data.

WI-CARE™ GATEWAY

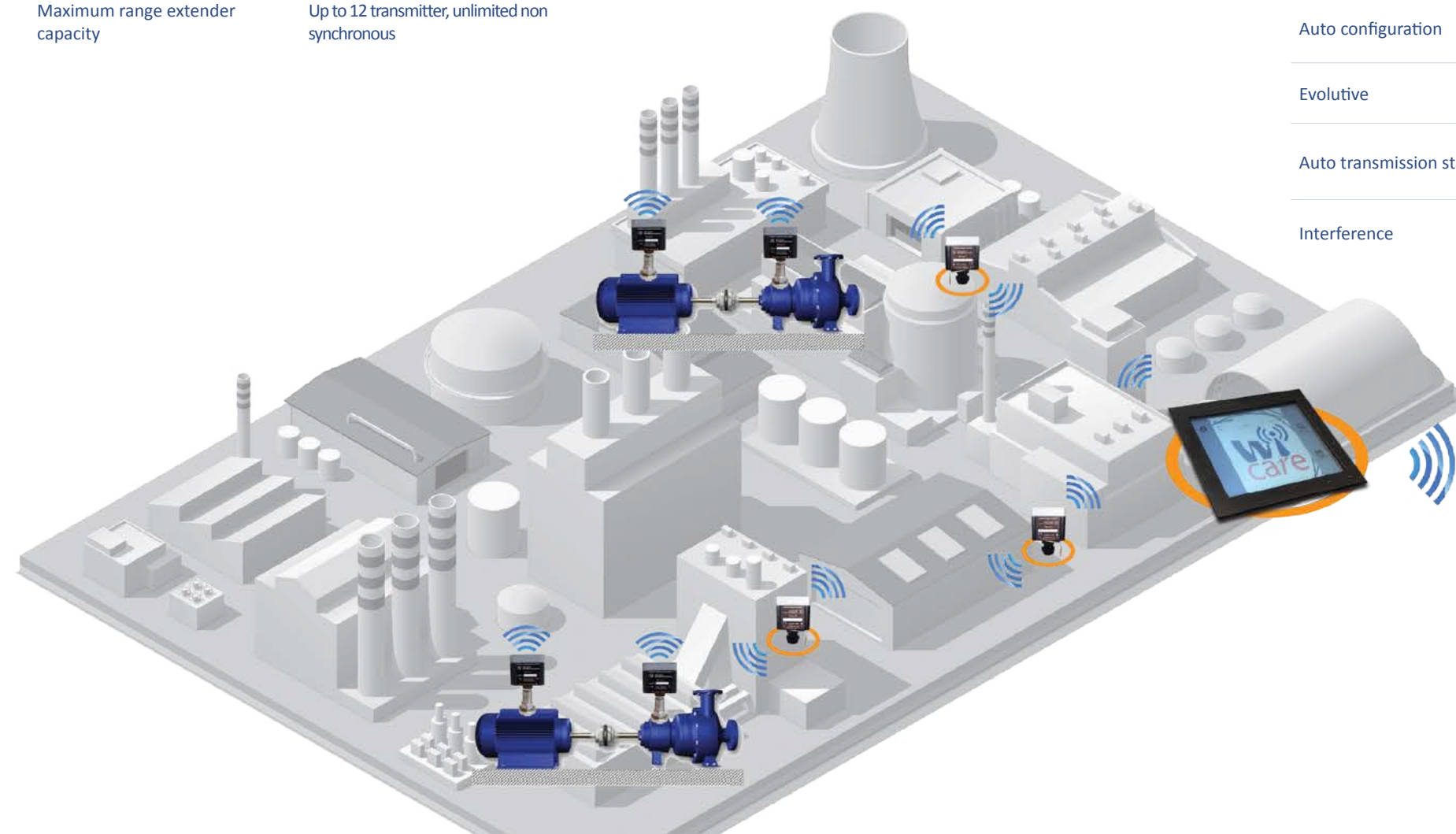
Gateway capability	1 to 144 Wi-care™ transmitters
Alarm and alert	Delivers alarms/alert on data and transmitter condition
Complete visualization	Offer touchscreen interface for values and trend display vibration, temperature, alarm level
Web Connectivity	Mandatory connected on Ethernet / 3G UMTS module
Flexible powering	220V AC / 12V DC
Data saving	Integrated double side data back up on I-care™ server and gateway hard drive
Operating temperature	0°C to 50°C

WI-CARE™ WEB PORTAL

Wi-care network management	Wireless architecture viewing and configuration
Alarm viewing	Vibration and temperature data, trending intelligent alarm
Measurement management	Measurements frequency, planned acquisition, on demand acquisition, data configuration.
Web platform language	English, French, Korean, German, Dutch, Spanish, Italian, Polish. More on request
Network diagnosis tool	Network status, Network load, transmission quality, transmitter battery level
Web platform requirements	Compatible web browser: Chrome, Chrome for Business, Firefox, IE>9, Safari.
Reporting	Report of data analysis viewed and stored on web platform. Web service data export.
KPI	Automatic KPI on program scheduling and equipment health

WI-CARE™ RANGE EXTENDER

Flexible powering	220V AC / 24 DC
Maximum range extender capacity	Up to 12 transmitter, unlimited non synchronous



WI-CARE™ ARCHITECTURE

Protocol	Built and meet requirements of IEEE 802.15.4
Radio	Standard IEEE 802.15.4
Frequency	2.4 GHz, license free ISM band
Auto configuration	No configuration of communication path. Auto repairing network
Evolution	Once the first network is installed new transmitter can be added at any time
Auto transmission start	Begin transmission as soon as a power is applied to the device
Interference	No interference with other wireless networks

DISTANCES

Transmitter to range extender in open air area	200 meters
Transmitter to range extender in a high density industrial area	50 meters
Range extender to range extender in open air area	500 meters
Range extender to range extender in a High density industrial area	100 meters
Range extender to gateway in open air area	500 meters
Range extender to gateway in a high density industrial area	100 meters

