

2.4GHz® PRODUCT LINE

WIRELESS IOT SENSORS SUPERVISION SOFTWARE

FEATURED VIDEO



FFT (FAST FOURIER TRANSFORM) MODULE



2.4GHz USER GUIDE



OPC USER GUIDE



SUMMARY

- Overview and Main features
- A core fully dedicated to wsn supervision
- Real time & fully integrated data base
- Sophisticated and intuitive GUI
- Active supervision & monitoring system
- Beanscape manager : cost-free & eco-friendly wsn configurator
- Beanscape premium : connect several wsn to the same computer
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- Your vibration analysis report at a glance
- Software versions
- Minimum system requirements
- How the Beanscape licence is working ?
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WIRELESS IOT SENSORS SUPERVISION SOFTWARE

OVERVIEW AND MAIN FEATURES :

The **BeanScape® 2.4GHz** is a real time WSN supervision and control monitor. It allows the user to monitor and operate in real time BeanAir® WSN. The **BeanScape® 2.4GHz** is also equipped with a smart expert system that allows users to interpret elements such as data acquisition or alarms related to the sensor network.

BeanScape® 2.4GHz comes with outstanding features:

- Supervision software fully dedicated to Beanair® Wireless Sensor Networks
- Fully integrated Wireless Sensor Networks maintenance tool
- Easy integration to a third-party supervision software thanks to our OPC server (**BeanScape®**)

Several versions are available:

- **BeanScape® 2.4GHz Manager**: free of cost, no real-time measurement display
- **BeanScape® 2.4GHz Basic**: can manage 1 wireless sensor network, real-time measurement display
- **BeanScape® 2.4GHz Premium**: same features than **BeanScape® 2.4GHz Basic**, can manage several wireless sensor networks, advanced vibration analysis tools (Real-Time Velocity and FFT, PPV values);

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A CORE FULLY DEDICATED TO WSN SUPERVISION :



REAL TIME AND FULLY INTEGRATED DATA BASE :

The real time database records high sampling measurement plots and WSN activities with a small memory footprint :

- No installation is needed
- Data backup (activable/disactivable functionality).
- Easily exportable data in CSV format (Access, Excel, Matlab, Labview...).
- WSN mapping can be exported and imported on differents BeanScape® software

SOPHISTICATED AND INTUITIVE GUI :

The **BeanScape® 2.4GHz** offers a complete and intuitive real time view of our Wireless Sensor Networks :

- Detailed and efficient viewset representing different alarm levels (4 different customizable alarm thresholds high/low)
- Automatic alarm diagnostics generated by BeanAir®'s expert system
- Highly customizable GUI allowing the user to name and rename components and to associate metrics (in case of sensors)
- Highly configurable data panel and multi-chart board.

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ACTIVE SUPERVISION AND MONITORING SYSTEM :



The **BeanScape® 2.4GHz** is an active monitoring system which allows a remote configuration of each and every component part of the wireless sensor network :

- Data acquisition configuration: Data acquisition mode, sampling frequency and duration, sleeping mode cycle.
- Alarm notification by email when a measurement threshold is reached
- Power supply management
- Switch to manual or automatic radio channel with «Energy Scan» functionality (automatic setting to the best available radio channel)
- Sensor calibration interface
- Radio transmission configuration
- Global or partial network maintenance
- Visualization of all the information relative to the wireless sensor networks performance: radio signal quality, PER (Packet Error Rate)
- Battery diagnosis: battery level, battery voltage internal temperature,
- FFT (Fast Fourier transform) waveform analysis module

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BEANSCAPE® 2.4GHZ MANAGER :

COST-FREE & ECO-FRIENDLY WSN CONFIGURATOR :

BeanScape® Manager is suitable for users looking for configuring Beanair WSN:

- Fully integrated Wireless Sensor Networks Maintenance and Installation Tool
- User Friendly and highly adaptable to user's environment
- Real-time integrated Database
- ModBus TCP/RS232/RS485 configurator (available only for the **BeanGateway® ModBus** version)
- Data logging on CSV file

The **BeanScape® Manager** is free of cost, and already includes 1 month of technical support. User looking for real-time data visualization, multi-WSN supervision software, longer technical support and a full compatibility with a third-party supervision software, can migrate to the **BeanScape® Basic**, **Premium** versions.

BEANSCAPE® 2.4GHZ PREMIUM :

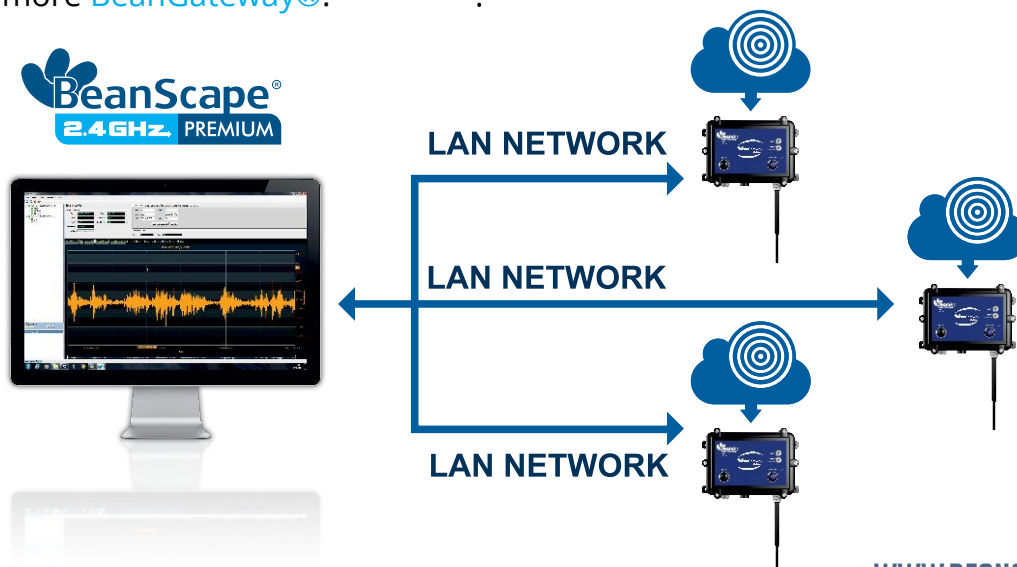
CONNECT SEVERAL WSN TO THE SAME COMPUTER :

With the **BeanScape® Premium** you will be able to connect as many **BeanGateway®** as your computer can handle at the same time.

A **BeanGateway®** can manage up to 50 **BeanDevice®**, depending on the product range and measurement frequency.

BeanScape® Premium allows you to cover a large field with a single PC, software and gateway.

Multi client TCP/IP server included in **BeanScape® Premium** add-on was designed to offer you the best performances with one or more **BeanGateway®**.



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YOUR VIBRATION ANALYSIS REPORT AT A GLANCE :

For user working on building and ground vibration, the BeanScape® (except manager) provides advanced vibration analysis tools:

- Vibration analysis tools: FFT, PPV (Peak Particle Velocity), Velocity
- Automatic report meeting the DIN4150-3 standard (Excel, PDF and Word)

DIN4150-3 specifies a method of measuring and evaluating the effects of vibration on structures designed primarily for static loading. It applies to structures which do not need to be designed to specific standards or codes of practice as regards dynamic loading.

The report is generated with the following information:

- Building Type,
- Pipeline Material,
- Velocity Average,
- Sampling Rate,
- Analyze Duration,
- LTVEE: Long Term Vibration Evaluation Effect
- LTEBP: Long Term Effect on Buried Pipework
- STEBP: Short Term Effect on Buried Pipework
- STVEE: Short Term Effect Evaluation

DIN 4150-3 REPORT

Building Type	Commercial
Pipeline Material	Steel
Velocity Average (mm/s)	-2657,82710089696
Sampling Rate (hz)	200
Analyze Duration(hh:mm:ss)	00:33:06.4250000
LTVEE	NOK
LTEBP	NOK
Velocity Frequency (hz)	0,1953125
Maximum Velocity (mm/s)	127029.276017999
STEBP	NOK
STVEE	OK




KEYWORD	LTVEE	Long Term Vibration Evaluation	MEANING
	LTEBP	Long Term Effect on Buired Pipework	
	STEBP	Short Term Effect on Buired Pipework	
	STVEE	Short Term Effect Evaluation	



Product specifications are subject to change without notice. Contact Beanair for latest specifications.

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SOFTWARE VERSIONS :

			
Number of managed BeanDevice® 2.4GHz	35	35	Unlimited
Period technical assistance (e-mail)	1 MONTH	1 YEAR	1 YEAR
OPC Server DA	✗	✗	✗
Free of cost ?	✓	✗	✗
Real time data base	✓	✓	✓
GUI (Graphical User Interface)	✗	✓	✓
Alarm notification by email	✗	✓	✓
Streaming with Event-Trigger (S.E.T.) mode	✗	✓	✓
NTP client	✗	✓	✓
Real-Time FFT, Real-Time Velocity	✗	✗	✓
Automatic Reports (Waveform , FFT, PPV, Velocity)	✗	Only Waveform report	✓
Multi-user access	✗	✗	✗

MINIMUM SYSTEM REQUIREMENTS :

- Intel Core I5 , Intel Core I7 (if you use FFT and PPV function)
- Microsoft® Windows® XP (32-bit), Windows Server® 2003 (32-bit), Windows Server 2008 (32-bit), Windows Vista® (32-bit), Windows 7 (32-bit and 64-bit), Windows 10 (32-bit and 64-bit), Windows 11 (32-bit and 64-bit)
- 8GB RAM(if you use FFT and PPV function)
- 10 GB of disk space
- 1 GB of graphics memory

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HOW THE BEANSCAPE LICENCE IS WORKING ? :

The BeanScape® licence is related to the **BeanGateway®** device, i.e. user can install the BeanScape® on different

PC and asynchronously connect it to the same **BeanGateway®**.

If a new **BeanGateway®** is acquired, there will be two applications cases:

- The **BeanGateway®** works independently, a new **BeanScape® Basic** should be acquired
- The **BeanGateway®** is connected to the same PC (multi-WSN management), **BeanScape® Premium** should be considered

CONTACT US :

Headquarter:

Buchholzer Straße 65,
13156 Berlin, Germany

Email:

info@beanair.com

Phone number:

+493066405051



WWW.BEANAIR.COM



WWW.SPACE-WIRELESS.COM

