Overcome your future industrial challenges by adopting an innovative wireless sensor network technology

You are a manufacturer and you wish to:

- Lower your cabling costs
- Automate your production process
- Get a better knowledge about your equipment availability
- Optimise your machine stock maintenance costs
- Improve your equipment’s energy efficiency

An ideal solution in terms of instrumentation

We offer an entirely packaged (end to end), standard wireless sensor network solution (IEEE 802.15.04 wireless technology). By offering a standard OPC server, our system is highly interoperable and easy to integrate within your IT system.

ModBus protocol (coming with three version TCP, RTU et ASCII) available on some **BeanGateway® products** accelerate the integration of BeanAir WSN with an industrial PLC.

Our wireless technology has a very high stability rate in harsh environments.

What you will gain by using BeanAir® technology

- Significantly reduce your equipment installation and maintenance costs
- Eliminate your cabling costs
- Improve your equipment life cycle thanks to predictive maintenance
- Access to remote sites that are inaccessible to wired solutions
- Accelerate sensor installation on your equipments and improve your factory’s energy efficiency
Wireless Sensor / Wireless DAQ with integrated data logger

BeanDevice® products are declined into three product lines:

- **SmartSensor**: Wireless sensors integrating a MEMS accelerometer. These products are well suited for vibration, tilt and shock measurements;
- **ProcessSensor**: Wireless Data acquisition system compatible with analog sensors
- **EcoSensor**: Wireless sensors dedicated to Technical Building Management and Environment markets. All our BeanDevice® come with an embedded datalogger.

**BeanGateway Wireless Coordinator**

The BeanGateway® is used to build and manage BeanAir wireless sensor networks. It can manage queues for every network component. As a gateway, it controls the external access to the network through a highly secured authenticated procedure. It allows communication with the Wireless Sensors Network through IEEE 802.15.4 protocol. The BeanGateway® provides standard protocols for a better communication with a SCADA supervision software.

**Supervision software dedicated to our wireless sensor network**

BeanScape® software is suited for monitoring and configuring BeanAir® wireless sensor networks. The BeanScape® is exclusively developed by our R&D team in order to offer users application efficient, flexible and robust software. It is best suited for telemetry applications & remote maintenance of proximity certain meters to several kilometers.
Our wireless sensor networks could be used for machinery condition-based maintenance (CBM) as they offer significant cost savings and enable new functionalities. In wired systems, the installation of enough sensors is often limited by the cost of wiring. Previously inaccessible locations, rotating machinery, hazardous or restricted areas, and mobile assets can now be reached with wireless sensors. There are many opportunities for using wireless sensor networks within the water/wastewater industries.

Beyond all the advantages related to wireless technology, our solution:

- Is non intrusive;
- Operates with 90% of the existing sensors (pressure, temperature, displacement, vibration, humidity.....)
- Reduce your integration costs
- Will lead you ahead by improving your productivity
The BeanDevice® AN-420/AN-V/AN-mV is a wireless data logger with analog inputs (4-20mA, ±5V, ±10V & ±20mV). Special care is taken in the analog signal conditioner design with an accuracy of ±0.08% (FS) and a dynamic range of 16-bits. The sensor is directly powered by a high accuracy and adjustable DC/DC converter integrated inside the BeanDevice®. The sensor voltage is remotely configurable through the BeanScape® supervision software (4.5 to 20V).

The BeanDevice® AN-420/AN-V/AN-mV is suitable for the following applications:

- Remote monitoring
- Built-in test equipment
- Process supervision

Watch our featured video: How to connect and power supply a sensor with the BeanDevice® AN-420/AN-V/AN-mV
BeanDevice® AN-420/AN-V/AN-mV

Wireless data logger with analog inputs

**4-20mA current loop inputs**

**±5V/ ±10V/ ±20mV analog voltage inputs**

**Wireless Transmission IEEE 802.15.4 with antenna diversity**

**On-board sensor power supply, software configurable 4.5V to 20V**

**Integrated rechargeable lithium-ion battery**

**Embedded data logger up to 1 000 000 data acquisition records**

BeanDevice® AN-420/AN-V/AN-mV main presentation video

BeanDevice® AN-420/AN-V/AN-mV configuration video

BeanDevice® AN-420/AN-V/AN-mV wireless range video

BeanDevice® XTender Main presentation video

BeanDevice® XTender Self-powered wireless data logger with analog inputs

**AN-420/AN-V/AN-mV**

**4-20mA current loop inputs**

**±5V/ ±10V/ ±20mV analog voltage inputs**

**Wireless transmission IEEE 802.15.4 with antenna diversity**

**Integrated sensor power supply, software configurable 4.5V to 20V**

**Integrated lithium-thionyl chloride primary cell 6,5Ah**

**Embedded data logger up to 1 000 000 data acquisition records**

**Extended operating temperature range: -40°C to +85°C**
An OPC server to open your WSN to your own application

The BeanScape® Premium+ integrates an OPC DA server (Data Access). OPC DA is particularly well suited for real time measurement and data sharing. Each data/measurement can be associated to a tag or its attributes and shared with one or many OPC clients. Therefore, the BeanScape® Premium+ opens up to many third party applications (SCADA, web portals etc.). The BeanScape® OPC is DA 2, DA 2.5 and DA 3 compliant and allows two different presentations. The first is a compact presentation of the sensor tree, presenting all the secondary attributes under the form of attributes. The second is an extended presentation of the sensor tree where each secondary attribute is presented by an OPC item/tag rather than an attribute.

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

sales@beanair.com
Tel.:+33.(0)1.83.62.16.38
Fax : +33.(0)9.72.32.56.28
www.beanair.com