OVERVIEW
The Baggi SensEvolution® products have been developed for providing industrial analysis in many application fields. They are complemented by cabinets and shelters, that form the SenseEvolution Shelt® product line and are designed and manufactured to meet the specific needs of customers. Shelt® product line come with a full range of accessories, according to the more diverse requirements: heating/cooling systems, ventilation, exhaust, electric installation, lighting, sensors, electromagnetic shielding, cable and pipe connections, fire protection, mounting system.

DETAILS
The shelters are easily transportable, they can be equipped in the workshop and then moved to the final destination. They can be designed to meet severe environments, such as wind and snow loads, corrosion due to humidity and salt, and extreme temperatures (arctic or desert conditions). Windows can be made of laminated safety glass or of acrylic glass. Shelters can provide a controlled temperature and a proper ventilation to - as example - a calorimeter for Wobbe Index measurement. An exhaust outlet is provided for flue gas discharge. All the following connections are carried out: electrical power, process gas, analogue and digital electric signals.

ADVANTAGES
Cabinets and shelters can be a custom tailor made turn-key solution: power, signals, pneumatic and process connections are all provided and certified by Baggi. Based on a long experience, Baggi is able to offer very reliable solutions in reasonable time for many demanding applications. Baggi service also offers complete post-sales support (periodical and spot maintenance, spares, recalibration, and technical assistance) in order to achieve full customer satisfaction.

The Shelt® products can be ordered by the customers independently from the other SensEvolution® products.

APPLICATIONS
Shelt® product line have a wide range of applications: from the shelter providing an internal controlled climate to the cabinet providing Atex protection in potentially explosive atmosphere (hazardous areas Zone 1-2), type of protection: “Ex d”, “Ex e”, “Ex pz” and “Ex px”.

protect your investment

B.A.G.G.I. srl
Viale Campania, 29
20133 Milano
info@baggi.com

http://sensevolution.baggi.com

SensEvolution Shelt® Product Line
Cabinets and shelters
OVERVIEW
The Baggi SensEvolution® products have been developed for providing industrial analysis in many application fields. The Sensevolution Plant® line has been developed for supplying turn-key plants in the Oil & Gas sector. This goal is achieved by providing prompt and professional services, integrated systems and state-of-the-art technology. Our company is a solution provider with over 60 years of industry experience, with the added capability of being a manufacturer.

DETAILS
The project and the building of each plant are supported by:
- Site supervision by qualified personnel
- Design team made by mechanical, chemical, electrical and electronics engineers
- Control system PLC/DCS engineers, calculation and logistics software
- Monitoring and control systems for industrial plants
- Capability of manufacturing vessels/tanks of any type
- Non-destructive examinations
- Qualification of Welds and Welders; ATEX certifications
- Pre and Post sales technical assistance; training courses
- Remote technical support, installation, commissioning and start-up
- Technical and Safety documentation

ADVANTAGES
The Sensevolution Plant® line is guaranteed by a Solution Provider that is backed by its own manufacturing capability and by its long term experience in monitoring and control systems. All this is complemented by a world-wide technical intervention.

APPLICATIONS
The Sensevolution Plant® line has the following typical applications in the petrochemical industry:
- Tank dewatering
- Desalters
- Two or three phase separators
- Dosing systems

the turn key solution

http://sensevolution.baggi.com
OVERVIEW

The Baggi SensEvolution® products have been developed for providing industrial analysis in many application fields. Due to the long expertise in the Oil&Gas industry, the new SensEvolution Mobi® product line has been designed and developed. As the name suggests, instruments/analysers that previously needed fixed installations are now available as portable devices.

DETAILS

A typical Mobi® product example is a compact portable instrument for detecting the water in oil interface directly in storage/process tanks. In addition to measuring the emulsion profile, the sensor is available in different technologies allowing the measurement of density, dynamic viscosity and temperature and other chemical/physical parameters on request (H2S, SO2, BTX, total aromatic etc...)

The technology is insensitive to vibration, level or turbulence and assures long term calibration stability and low maintenance.

ADVANTAGES

Using Baggi’s Mobi® products is a better way to do detection, thanks to instruments designed to the highest quality standards. They are rugged, reliable and able to stand the harshest work environments and provide flexibility of monitoring in a variety of applications. Baggi service also offers complete post-sales support (periodical and spot maintenance, spares, recalibration, and technical assistance) in order to achieve full customer satisfaction.

APPLICATIONS

The more common applications are:

- Emulsion concentration detection
- In tank blending and mixing control
- Level gauges calibration
- Water level detection in storage tank
- Upstream and downstream petroleum refinery applications
- Marine and navy for wash tank operations
- Water concentration control at outlets and delivery points
OVERVIEW
The Baggi SensEvolution® products have been developed for providing industrial analysis in many application fields.
*The SensEvolution Sample® line* comprises all the sampling products developed for the SensEvolution® instruments/analysers, but also special executions made under specific customers’ requirements.

DETAILS
*Sample® conditioning system* can be used for cleaning gases like coke oven gas and blast furnace gas before performing further analysis (e.g. Wobbe Index measurement).
*Sample® conditioning systems* are optimized for use in ATEX environments.
All the actuators (inclusive of the pump) can be pneumatically operated.
It can be manufactured according to the Nessi® standard.

ADVANTAGES
The *Sample® products* can be ordered by the customers independently from the other SensEvolution products. They are a custom tailor made turn-key solution. Based on a long experience, Baggi is able to offer very reliable solutions in reasonable time for many demanding applications. Baggi service also offers complete post-sales support (periodical and spot maintenance, spares, recalibration, and technical assistance) in order to achieve full customer satisfaction.

APPLICATIONS
The Baggi *Sample® line* can be used in many filed, as metallurgical industries and glass production.
Other application fields can be oil and gas, refining and petrochemical industries.

improve input for better output
OVERVIEW
The SensEvolution® product line has been developed for providing industrial analysis in many application fields. These instruments are the result of combining the latest state-of-the-art-technology with over 60 years of industry experience. According to the customers’ requirements, new analysis methods are being added to the product line. The evolution (emphasized in our logo Sensevolution®) does not mean revolution, as the principles used in the instruments are based on well-proven industrial practice.

DETAILS
Each Base® product integrates a ruggedized embedded computer and one or more sensors. The design of the system and the software development can be made according to the customer’s specific requirements. It’s completed by Data acquisition and logging subsystem ans it’s suitable for dangerous areas (ATEX).

The measurement principles presently offered are the following:

- SPECTROSCOPY (in liquid or in gas, UV, Vis, NIR, IR, FTIR)
- GAS CHROMATOGRAPHY
- PHOTO-IONIZATION DETECTION
- ELECTROMAGNETIC ENERGY ABSORPTION
- PALLADIUM SENSORS
- VIBRATING ELEMENT technique
- CCD SENSORS for optical analysis
- OSCILLATING PISTON

ADVANTAGES
The advantage of using a Base® product is to have a tailor made solution at the price of an off-the-shelf device. When the need arises, new measurement principles can be added easily. The flexibility of the software running in the controller is matched by the company’s expertise in selecting the appropriate physical/chemical analysis method. Based on a long experience, Baggi is able to offer very reliable solutions in reasonable time for many demanding applications. Baggi service also offers complete post-sales support (periodical and spot maintenance, spares, recalibration, and technical assistance) in order to achieve full customer satisfaction.

APPLICATIONS
Among the many applications, the typical ones are: refineries, petrochemical and pharmaceutical industry, emission monitoring, biogas generation, brewery and food industry, environmental analysis.

your lab in the field

B.A.G.G.I. srl
Viale Campania, 29
20133 Milano
info@baggi.com

http://sensevolution.baggi.com
OVERVIEW
The SensEvolution System® product line has been developed for providing turn-key systems for industrial process measurement and analysis in the more varied application fields. They are the result of combining the latest state-of-the-art-technology with over 60 years of industry experience.

DETAILS
Each system can be composed by all or some of the following components:

- An embedded computer or PLC that controls the overall system and interfaces any higher level O&M node
- A software package specialized according to the specific application
- Sensing elements transmitters or analysers - e.g. spectrophotometer, photo-ionization detector, flame-ionization detector, microwaves absorption, level, temperature, pressure, density and viscosity sensors etc....
- A sampling system: either a direct insertion into the process pipe/vessel or a fast loop derivation with any required pump
- A sample conditioning subsystem, according to the application: line heaters, filters, dehumidifiers, pressure regulators, flow controllers
- Data acquisition and logging subsystem: it handles typically analog signals (0/4...20 mA), digital I/O, thermocouple inputs, RTD inputs, resistance up to 15 KΩ, strain gauge input
- Auxiliary devices like calibration cylinders and cleaning circuits.
- Cabinets and shelters: from the shelter providing an internal controlled climate to the cabinet providing ATEX protection in potentially explosive atmospheres (hazardous areas Zone 1-2), type of protection: "Ex d", "Ex e", "Ex pz" and "Ex px".
- Service: it can be considered an integral part of the System® product line. Training, spares handling, on site programmed and spot maintenance, tuning and calibration, remote technical support, worldwide expedited shipments are all available.

ADVANTAGES
The advantages of using a Baggi System® is to have a complete, integrate turn-key solution from a single supplier. Each system is tailored according to customers’ needs. Baggi service also offers complete post-sales support (periodical and spot maintenance, spares, recalibration, and technical assistance) in order to achieve full customer satisfaction.

APPLICATIONS
Typical application fields are: refineries, petrochemical and pharmaceutical industry, blast furnaces, emission monitoring, combustion control, biogas generation, brewery and food industry, environmental analysis.

the all in one solution