

Why chose us?

Since 1947 baggi has been synonymous with quality and reliability. Since his foundation Mr. Eugenio Baggi has been involved in solving industry problems using innovative tools found all over the world. His 3 sons, continuing their father's tradition, have expanded the range of products with their own production. BAGGI, from a family business operating on the Italian market, has expanded by selling and installing all over the world.

"United we stand, divided we fall" with this motto we seek collaboration every day with other companies producing instruments to create the best. Strongly motivated together we manage to create products that would hardly have been made without these joint ventures.

Measurement-Analysis of:

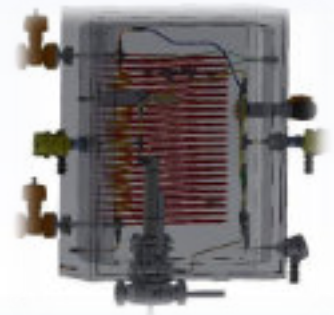
- Sulphur analyzers series – **SU3200**
 - H2S in gas – **SU3201**
 - H2S/SO2 in tail gas – **SU3202**
 - H2S in crude oil – **SU3203**
- SIC (salt in crude) – **SC6100**
- RVP (reid vapor pressure) – **RV8100**
- Gas flow meter – **GF9100**
- Portable emulsion profiler – **MOBI**
- Gas compound (chromatography) – **CH2200**
- Moisture – **MO2300**
- Oil in water – **OW4100**
- Wobbe index – **CA2100**
- Turbidity/Colorimeter – **CO5100**
- Ph-Conductivity, TDS, Dissolved O2 – **MT9100**
- Multi gas series – **AD4200**
 - H2 – **AD4201**
 - CO/CO2 (others...) – **AD4202**
 - O2 (extractive) – **AD4203**
 - O2 (In-Situ) – **AD4204**
 - CH4 – **AD4205**

Where:

- Oil&Gas
- Bio-gas, bio-methan production
- Steel industry
- Lime – cement-Ceramik
- Petrochemical

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Our representative:



SENSOLUTION
Volume measurement & analysis solutions

SU3200

Accurate measurements of Sulphur compounds.

The instrument is based on Ultra-Violet (UV) spectroscopy that provides high wavelength resolution. The measurement technique relies on the Beer-Lambert law. The material (tail gas) is introduced in a sample cell of specific optical path length. The UV energy is transmitted to the cell via an optical fiber cable, it passes through the gas space and the residual energy is transmitted to the UV sensor by a second optical fiber.



SC6100

**Follow ASTM D3230
Standard test method for salts in crude oil
(Electrometric Method).**

This test method covers the determination of the approximate chloride (salts) concentration in crude oil. The range of concentration covered is 3.5 mg/kg to 500 mg/kg or 1.0 lb/1000 bbl to 150 lb/1000 bbl (PTB) as chloride concentration/volume of crude oil. This test method measures conductivity in the crude oil due to the presence of common chlorides, such as sodium, calcium, and magnesium



RV8100

**Follow ASTM D323
Standard test method for vapour pressure of petroleum
products (Reid Method).**

In collaboration with the Swiss company LINTECH we have designed and produced the SENSEVOLUTION RV6100. This test method covers procedures for the determination of vapour pressure of gasoline, volatile crude oil, and other volatile petroleum products. Procedure A is applicable to gasoline and other petroleum products with a vapour pressure of less than 180 kPa (26 psi).



GF9100

For measurement of high-speed gas.

From 0,03 to 100 m/sec temperature no limit. The OF1010 makes drift free measurements across the entire stack, duct or pipe diameter and calculates an accurate average flow reading. It is the only flow sensor that gives a true non-contacting cross-stack flow measurement of the process.



MOBI

We propose reliable technique to optimize the fluid phase monitoring and interface level measurement for oil, water and emulsion. The product line is provided in the configuration for the specific application in compliance with fluid, process conditions, area classification, environmental conditions, the interface to be measured and its range to guarantee the scope of the measure ent (scope of work).



CH2200

In collaboration with the French company CHROMATOTEC, we have designed and produced the SENSEVOLUTION CHROMA, a combination of the chromatographic system and the necessary components for a correct installation in oil & gas and steel industries





SENSEVOLUTION MO2200
Industrial measurement & analysis solutions

With the English company AMS, we have produced the SENSEVOLUTION MOIST to detect humidity in gases up to a value of 0.05 ppm or -95 °C of Dew Point. This extremely low value is required in the verification, during the treatment of the gases, of the good activity of the gas drying filters.. A system alarm signal can be guaranteed at 0.15 ppm humidity.



SENSEVOLUTION OW4100
Industrial measurement & analysis solutions

Offers continuous on-line monitoring for ppm concentrations of petroleum oils in effluent and produced water without chemicals or lag time. A non-contacting sensor design minimizes system maintenance. The OW4100 is the engineered combination of three unique designs:

- The **sensing chamber** contributes a continuous controlled water sample
- While the **optical sensor package** hovers above the passing stream
- The **controller** then monitors the multiple signals to provide a reliable ppm concentration output

This Oil in Water Analyzer uses a UV fluorescence technique to target the aromatic component of the oil contamination.



SENSEVOLUTION CA5100
Industrial measurement & analysis solutions

In collaboration with the German company UNION GMBH, we have designed and produced the SENSEVOLUTION CALORIMETER CA5100.

It is now well known that a complex machine such as a calorimeter needs:

- 1) an electro-pneumatic sampling system that takes care of the correct transfer of the gas in question, taking care of filtering, dosing, etc.
- 2) a suitable interface of the sampling system with the calorimeter.

The ten-year technical-commercial relationship between baggi and union allow all of this by giving us the possibility to solve complex problems all over the world

SENSEVOLUTION MT9100
Industrial measurement & analysis solutions

In collaboration with the well-known American company Mettler Toledo, we have already delivered complete systems to detect PH, AMMONIA, ETC. Also in this case to have a good instrument is not enough. The good and long relationship we keep with mt technicians give us the chance to propose complete devices for oil&gas and steel industries



SENSEVOLUTION CO5100
Industrial measurement & analysis solutions

The SENSEVOLUTION CO5100 is **high-precision turbidity device** used in various industries. The sensors are designed for inline operation and provide precise concentration measurements with high resolution, linearity and repeatability. The modular design of the sensors offers maximum flexibility in adapting to different process requirements. Options include electropolished sensor bodies, the possibility of use in hazardous areas (explosion-proof), chemical-resistant material (sapphire windows, titanium, Hastelloy etc.) as well as high-temperature and high-pressure versions.



With its wide-ranging ability to measure H₂S in liquids from % levels down to ppm levels, the SENSEVOLUTION SU3203 can be utilized in many process industries, including the **measurement of dissolved H₂S in crude oil**. The Analyser consists of a stripping system coupled with a H₂S Analyser. The liquid sample enters the top of an insulated, heated sample handling cabinet via a flow controller to maintain a constant sample flow. Nitrogen flows down a vertical tube to a sintered plug located within the liquid and then flows up through the liquid. As the nitrogen mixes with the liquid hydrocarbons it strips out the dissolved H₂S in the liquid.



Thermal Conductivity Analyzer

It is an industrial analyzer that allows a highly accurate **measurement of a gas in a binary (or quasi-binary) mixture**, exploiting its specific thermal conductivity with respect to the background gas. The 8866 in a waterproof and explosion-proof case is designed for installation in the most demanding conditions, and allows to minimize the sampling and treatment system.



Infrared Multi-Gas Analyzer

It is a **robust** process analyzer capable of measuring up to 3 gases in safe areas and classified areas with the highest ATEX protection mode (Zone 1 / 21). Designed to withstand the most demanding plant conditions, this analyzer has no choppers or other internal moving parts to compromise its reliability

Zirconium Oxide Analyzer

For ppm or % Oxygen measurements in flue gas & inert gases. The instrument integrates a special zirconium oxide sensor with solid state reference (micro-pod technology) that eliminates the need for reference air. The 8864 in waterproof and explosion-proof housing is designed for installation in the most demanding conditions, and allows to minimize the sampling and treatment system.



Zirconium Oxide Analyzer

It is a highly innovative zirconium oxide probe, the only one capable of measuring the concentration of residual O₂ in combustion fumes over the entire temperature range from 0°C to 1250°C thanks to a simple, but very advanced integrated heating system, managed by external electronics.

This extremely resistant, fully ceramic analyzer is able to withstand extremely harsh process conditions and has been specifically designed for crematoriums and incinerators, but it is an ideal solution for any combustion process in which the probe must always be in measurement, whatever the temperature of the fumes.



Extractive Single Beam Laser Process Analyzer (TDLAS)

It is a laser analyzer for industrial applications, capable of measuring a large number of gases, but optimized for Oxygen measurements (inertization control) in centrifuges and reactors in the chemical and pharmaceutical industry, as well as in biogas and landfill gas plants. The analysis tube can be in stainless steel or AISI Teflon-Coated in case of aggressive gases. TDLAS technology ensures incredibly fast response times, very low drift and no interference effects due to other gases in the stream. Available for safe area or for classified area Zone 1 / Zone 21 (ATEX certified).

