EPASS 2.5

Electronic Portable Sampling System for Hazardous Area

EPASS is a portable sampling system which repects the exiting sampling standards (ISO3171, API 8.2). It represents a solid alternative when the operating conditions do not suggest to operate or don't justify the adoption of a stationary automatic sampling system.

The system is equipped with an integrated sampler controller with an intuitive easy-to-use interface and a local keyboard for easiness of operation.

The backlight display is comfortably usable in poor lighting condition and it automatically shuts off to save battery power.

All the sampling activities can be accomplished directly in-field with minimum effort.
Once the sampling operation is terminated, a fully compliant ISO3171/ API8.2 sampling report can be retrieved directly from the unit in PDF format on an USB key with a very user friendly operation.

When a fixed solution is not suitable, **EPASS** is a powerful system, easy to operate and autonomous: it doesn't need any additional software or computer to operate.

The sampling report, automatically created by the **EPASS** unit, provides a complete recording of all the sampling measurements: Flow Rate, Pressure, Temperature, Operating alarms, Performance Factor, Grab Factor… **EPASS** helps to work-out your duties in less time and with minimum effort.

The system offers a high autonomy degree and permits to save precious human resources which can be employed in much worthy activities during the sampling operations.

EPASS Unit with Integrated Electronic Sampler Controller

Main features:

- Low maintenance cost
- Very easy-to-use
- Sampling report generated on board and compliant with all the exisisting standards.
- Up to 4 product lines can be sampled by a single control unit
- Process conditions (Flow Rate, Pressure, Temperature) and Sampling variables (Sample volume and weight, Performance Factor and Grab Factor are continuously recorded)
- Hazardous Area Certification: II 2(1)G Ex d e ia px [ia Ga] IIC T5 Gb

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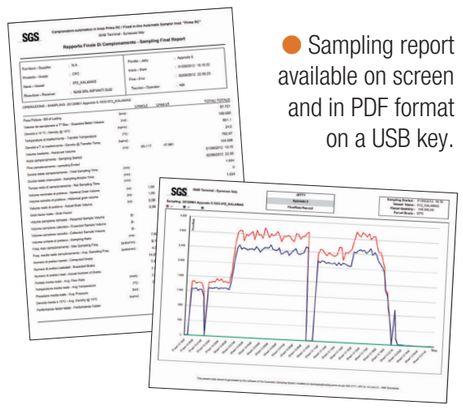
Automatic Sampling

- Managing, programming and supervision of all the sampling details achieved directly in-field through clear graphic interface and stainless steel numeric keyboard;
- Real time supervision of all the information of the current sampling operation (Received volume, flow rate, collected sample weight, number of grabs, performance factor, process alarms…);
- Logging of all the sampling and process data during a transfer operation;
- A sampling operation can be programmed on-site in few easy and simple steps.

- Weighing system for Collected Sample measurement, range 0-30 kg, sensibility 1 gram.



- Sampling report available on screen and in PDF format on a USB key.

- Hazardous Area Certificated Batteries, for up to 36 hrs of continuous operation;
- The battery is replaceable without losing the sampling operation.

- The EPASS control unit is made in rugged SS316 and can withstand the harshest marine environments.
- The unit is certificated to operate in Hazardous area and on board of oil tankers.

The system can operate up to 4 sampling lines, each of them can be equipped with:

- Pneumatic sampling probe PS55 command;
- Flow Rate Transmitter. Sensibility better than 0,024%;
- Temperature Transmitter with Sensibility better than 0,024%;
- Pressure Transmitter with Sensibility better than 0,024%.

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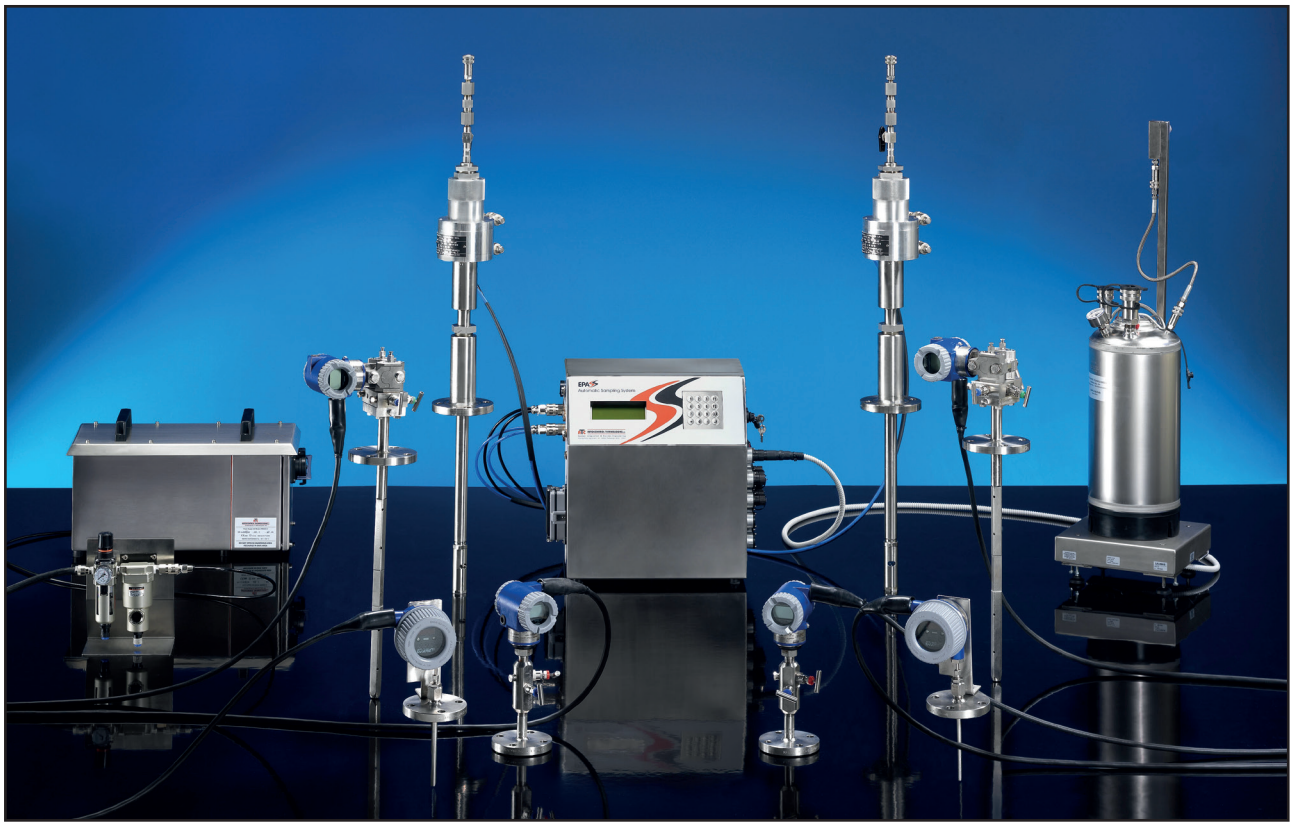
Technical Specifications

Sampled Products	Crude Oils, Refined Products and Fuel Oils
Nominal Grab Volumes	0.5 – 1.0 – 1.5 – 2.0 ml
Viscosity Range	0.5 – 8000 cSt (at line temperature)
Max sampling frequency	60 grab/minutes (depending on air supply pressure and fluid viscosity)
Line Sizes	6” – 20”
Requested Air Supply	5 bar min. instrument air

EPASS Specifications

Sampling lines	1 to 4
User Interface	Local Graphic LCD Display and Stainless Steel Keyboard
Ambient Temperature Range	-10°C to +55°C
Sample Repeatability	Better than 1%
Security Features	PIN protection multi-level user access
Haz. Area Certification	II 2(1)G Ex d e ia px [ia Ga] IIC T5 Gb
Battery duration	36h (battery can be replaced with a fresh one without losing the sampling operation)



2 lines EPASS Unit fully connected with:
Air filter, PS55-RA Sampling probes, Pitot Type Flow Meter, Pressure Transmitter, Temperature Transmitter, Battery Unit and weighing system.

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AUTOCONTROL TECHNOLOGIES S.r.l.
Via B. Signorelli, 16 - 24066 Pedrengo (Bergamo) - Italy
Tel. +39 035 3235811 - Fax +39 035 3235891
sales@autocontrol.it