

PORTABLE CALORIMETRIC MEASUREMENT SYSTEM

This portable system is a complete solution dedicated to the **sampling and conditioning** of a **representative natural gas sample**, in order to perform **on-site spot measurements**.

Designed for field interventions, it allows the sample to be conditioned for **optimal use of the calorimeter**, independently of **gas network pressure and flow variations**.

Features

- Adjustable high-pressure fast loop ensuring continuous sample refresh,
- Integrated filtration and separation to remove particles and liquids prior to analysis,
- Pressure reduction and stabilization to the setpoint required for calorimeter operation,
- Low-pressure flow adjustment,
- Integrated calibration gas port,
- Pressure relief system to protect the calorimeter,
- Optional integrated interfaces on request (power supply, signal output, Pocket HART connection),
- Complete integration in a portable field suitcase,
- Optional connection hoses,
- Optional sampling probe,
- Optional battery.

Applications

Allows on-site execution of all spot measurements of HHV, LHV and Wobbe Index on gas networks.



 Calorimetric measurement suitcase

Benefits

- Representative sampling and fully controlled measurement conditions,
- High measurement reliability and repeatability,
- Protection of both analyzer and operator,
- Turnkey mobile solution, perfectly suited for on-site spot analyses,
- Ease of operation and maintenance,
- High versatility, compatible with various environments and configurations.

 Portable case - external view



Technical specifications

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|---------------------------|---|
| Ambient temperature | From -10°C to +50°C |
| Admissible inlet pressure | From 0 to 150 barg |
| Inlet fluid temperature | From 0°C to +85°C |
| Measured gas components | C ₂ H ₆ , C ₃ H ₈ , C ₄ +, N ₂ + O ₂ , CO ₂ , CH ₄ |
| Detector | Micro TCD (thermal conductivity detector) |
| Display | 5-digit LCD |
| Analog output | 4-20 mA |
| Power supply | 24V DC - 0,6 A |
| Certification | Compliant with OIML R140 |
| Dimensions | 620 x 480 x 340 mm |