

# VSR MK3 | Technical specification



## VSR MK3 INSTRUMENTATION

Suction rail with eight sample intakes

Probe for detecting the presence of water in the sampling circuit with automatic triggering of nitrogen flushing  
Sensor test circuit using 50ppm CH<sub>4</sub> reference gas

Compact aluminum instrumentation box for installation either in the trunk or at the front (removal of passenger seat) of the vehicle. The instrumentation box integrates:-

- INSPECTRA® analyser
- Suction pump with a maximum flowrate of 800l/hr
- Water-repellent and dust filters to protect the sampling circuit
- Solenoid valves and flowmeter for the continuous monitoring of the reference gas and sampling flows
- Nitrogen flushing circuit

Sizes of instrumentation box: 550 mm x W400 mm x H400 mm

Weight of instrumentation box: 27kg

## ON-BOARD INSPECTRA® MEASUREMENT SYSTEM

- Measuring principle: laser spectroscopy – multi-pass cell
- Methane selective
- Measurement range as standard: 0 ppm to 190 ppm (device calibrated and adjusted to methane)
- Wider measurement ranges upon request
- Detection threshold  $\geq 0.5$  ppm
- Operating temperature: -15°C to +40°C (+5°F to +104°F)
- Storage temperature: -20°C to +50°C (+4°F to +122°F)
- Relative humidity : < 80% HR
- Patents Nr. 7352463 et 1647820

## OTHER

Gases for functional testing	-50 ppm CH <sub>4</sub> (methane) reference gas to test the measuring system and the detector -Nitrogen to flush the sampling circuit
Power supply	Required power supplied by the vehicle's battery: 12V 12Ah Power to laptop PC supplied by a 12V/220V 300W converter
Laptop / PC	Rugged or semi-rugged model of the make recommended by GAZOMAT™ for its robustness and performances for network survey purposes
GAZOCONSOLE™*	Compatible with Microsoft® Windows® 10
GAZONAV™*	GNSS (*) receiver specifically dedicated to network survey in urban areas comprising a receiver and an antenna (see brochure) • Communication protocol – NMEA – compatible with the satellite geolocation systems most used: Galileo + GLONASS + GPS

\*The survey software is not part of the VSR MK3 equipment. It must be ordered separately. Ecotec does not supply the vehicle. The latter is to be selected and purchased directly by the customer.