



LASER GAS DETECTION MODULE

NH₃ (TDLS)

LGD 2M

Rack 3U monitor using the TDL extractive technology to measure online the NH₃ pre and/or post catalyst: SCR (Selective Catalytic Reduction) or SNCR (Selective Non-Catalytic Reduction)

ENVEA offers this rackable and small footprint NH₃ measurement system (3U rack) integrated in its turnkey analysis benches for continuous engine gas measurements.

Its measuring principle is based on gas detection by tunable diode laser spectrometry (TDLS) which offers many advantages and an exceptional value for the customer.

TECHNICAL SPECIFICATIONS

Gas	NH ₃
Principle of detection	Tunable Diode Laser Spectrometry (TDLS)
Ranges	0-100 / 0-20 ppm
Precision 2σ	1.8 ppm @ 1 s 0.8 ppm @ 10 s
Response time	< 2 sec (T90) (at gas flow rate of 3 L/min)
Zero drift	below accuracy / 24 h (<±2.0 % full scale reading depending on stability (temperature & pressure))
Span drift	below accuracy / 24 h (<±2.0 % full scale reading depending on stability (temperature & pressure))
Cell temperature range	190°C
Operating temperature	+15 to +50°C
Communication	RS 232
Dimensions	Rack 19" - 3U