

LD500

Laser Diode Gas Analyser

The Opsis LD500 Analyser is the central unit in the laser diode gas monitoring system. It can house up to four laser diode heads. Each head is a complete laser control and data sampling system. A built-in PC with LCD display controls the function of the instrument.

The LD500 will emit light from the internal laser diode to an emitter via a fibre optic cable. A receiver converts the signal and sends it back via a second fibre optic communication cable to the LD500 analyser. The LD500 will

process and evaluate the signals and provide measurement results with response times down to one second.

Please refer to page two for the gases that can be measured. The specifications for each gas are presented in the respective application sheet.

The system can be configured according to the system examples described on page four.

Altogether, the LD500 analyser can measure on up to eight paths.



Technical Specifications (standard)

Dimensions (L \times W \times H) 485 × 450 × 200 mm, 19" rack

Weight incl. case (approx.) 15 kg

Voltage supply 230 V_{AC} (+6%, -10%) /

115 V_{AC} (±10%) 50/60 Hz

110 W Power consumption

Computer PC compatible CF memory 512 Mb

External modem

Hayes compatible Serial outputs RS 232

Ambient temperature +15°C to +25°C $(+60^{\circ}F \text{ to } +75^{\circ}F)$

Degree of protection IP 20

An LD500 includes as standard

Central unit with 6.4" LCD monitor and keyboard

PC and slots for four laser modules

External modem

4×RS 232

Communication card CC202L

USB port

Standard separately ordered

One laser head

One ER060L/ER080L/ER110L/ER150L emitter and receiver unit or ER120L and RR090L transceiver and retro-reflector

One OF010/OF005 laser optical fibre cable

One CF120 optical communication fibre

Gas calibration EG002 (one for each gas)

LA060 light adjustment kit for the emitter/receiver heads

Specifications subject to change without notice

Laser Optical Fibre

OF010-xxx Laser fibre for modules LH511, LH512, LH513, LH514 and LH516

OF005-xxx Laser fibre for module LH515 and LH517

-xxx = number of metres

Laser Heads

LH511 HF/H₂0 laser module LH512 HCI/H₂O laser module

LH513 NH₃/H₂O laser module

LH514 CO/CO₂/H₂S laser module LH515 O₂ laser module

LH516 CH₄/H₂O laser module

LH517 H₂0/Temperature laser module

Options

Additional laser heads (up to 4)

Additional monitoring paths (up to 8)

Additional serial ports

Additional communication card CC202L

RE060L-EEx receiver for use with EM060L emitter for explosion

classed areas Zone 1

External screen

Accessories

AC180 Air-conditioned cabinet

Auto-calibration equipment

MX10XL Multiplexer*

MXX01L Demultiplexer*

I/O Management software IO256

Digital and analogue input and output modules

Short-haul modems

Sensors

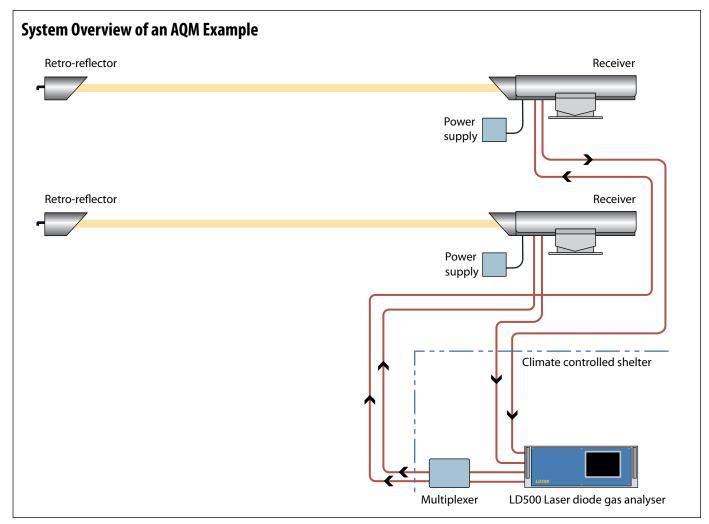
Dataloggers

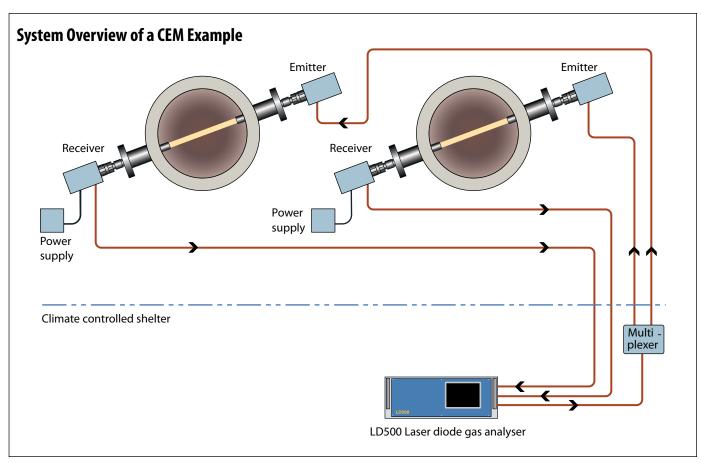
EnviMan Software

* Please specify the number of inputs/outputs and type of laser(s)

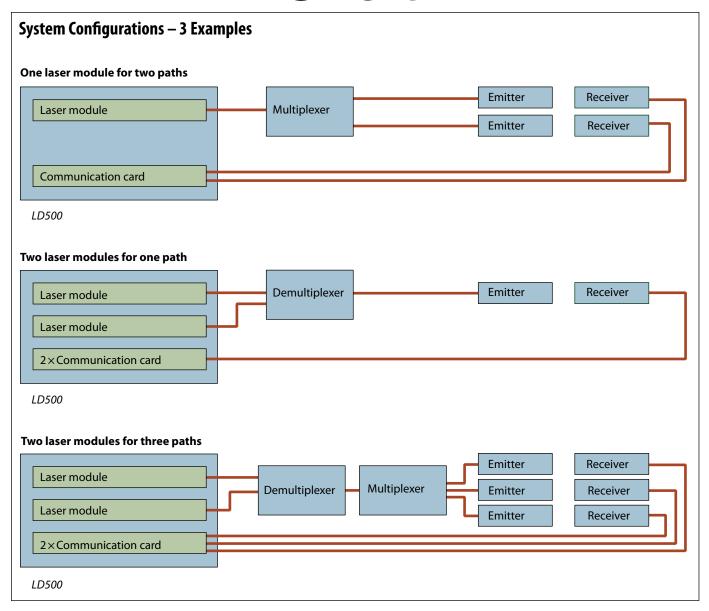












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