

HYBRID-600

**FAST LASER GAS ANALYSIS FOR
HIGH DUST PROCESSES**



**Works with any* industrial InSitu
laser gas analyser**

High dust process < 200 g/m³

Fast response time < 5 sec.

High temp < 600°C

**Non-contact analysis with no
process contamination of laser**

Full path validation/calibration

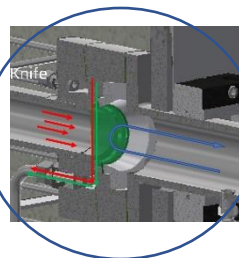
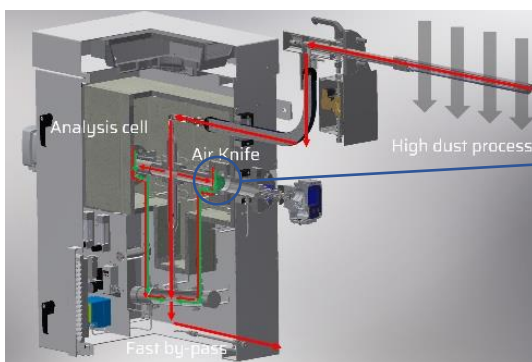
Easy 2" one flange installation

Small footprint competitive price

The Hybrid 600TM from FLO2R is a progressive laser gas analysis technology that works fast in high-dust industrial combustion processes. It offers the unique combination of an 'air knife' and a high-speed bypass loop.

The patent pending air knife is state-of-the-art technology that keeps the optic lenses clear of contamination from process gases at all times. Quick and clean bursts of air flow past the lenses in a bypass loop system offering precise and fast gas analysis with low service and no contamination from aggressive sample gasses.

The bypass loop creates a fixed and controlled environment with respect to pressure and temperature of the sample gas, making ideal conditions for the laser to operate. It removes any uncertainties for an accurate reading with deviations of less than + 2 percent. A probe with a custom-made filter allows the bypass loop to operate in high-dust processes, tolerating dust loads up to 200g/m³ with a response time of less than five seconds.



The fast bypass loop will replace the measuring path sample gas in front of the laser in less than 3 sec. without the optics ever coming in contact with the process gas which will ensure easy trouble-free operation.

*Please contact FLO2R to confirm your laser of choice

FLO₂R

LEARN MORE ABOUT FAST HIGH DUST GAS ANALYSIS. GO TO FLO2R.COM

HYBRID-600

**FAST LASER GAS ANALYSIS FOR
HIGH DUST PROCESSES**

TECHNICAL SPECIFICATIONS

Dust concentration
Temperature process
Response time T90
Ambient
Power supply:
Consumption purge gas
Communication
Rack size (hwd) excl. laser
Probe sample end size
One side flange installation of probe
Optical path length heated 180°C
Heated hose 180°C
*Analysis Components (Laser brand dependent)
Calibration/Validation system
Approvals

*Please contact FLO2R to confirm your laser of choice

HYBRID-600

0-200 g/m³
0-600 °C
Down to 3 sec. (*Laser dependent)
-20°C...+50°C IP66 (Extended temperatures on request)
3x380-600VAC 50/60Hz
2-10 l/min clean and dry
DO/DI 4/1 status.AQ/AI 4/1 4-20mA (Optional serial, 3G)
1050x820x548mm 50kg
OD 49mm, 1200mm
EN: DN50 PN6 or ANSI: 2" 150lbs (Others on request)
500mm St. 316L
3000mm standard (10') PTFE (Others on request)
O₂, CO, CO₂, CH₄, NO, NO₂, SO₂, H₂O, H₂S, NH₃
Yes (Optional for remote zero and span)
CE UL/CSA (Others please contact FLO2R)

The Hybrid 600 system will enable you as a gas analysis supplier to use your standard InSitu laser gas analysers in processes with high dust loads with all the benefits of easy installation, no process contact, fast response time and low maintenance.

Contact FLO2R today to find out how your standard industrial InSitu laser products gas can be winning the market segment for fast gas analysis in high dust processes with a simple competitive solution.

The data in this data sheet has been controlled with the intention to ensure accurate information. However, no responsibility can be accepted for errors or omissions. Also, data may change as product development is a continuous process at FLO2R. This document can never be used as basis for any form for contract.

CONTACT

Contact FLO2R
to enable your lasers
to work in high
dust applications.

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