

CLD 700 for Automotive Applications

Chemiluminescence Analyzers



With the CLD 700 and CLD 70 models, ECO PHYSICS offers a unique range of nitrogen oxide analyzers for the automotive and related industries. Whether for hot, moist, or cold, dry sample gas, and including simultaneous measurement of NO, NO₂ and NO_x, you will find exactly the right instrument for your application. And naturally all versions support the AK protocol.



Source: Porsche

The CLD 700 likes it hot.

The two-channel ECO PHYSICS CLD 700 series is equipped with the unique "hot tubing" module, which allows hot gases to be measured directly from the source. False measurements are ruled out, since the moist sample gas under vacuum causes no condensation in the measurement unit. In most applications it is also possible to dispense with the otherwise customary sample gas-cooler.

When it is exclusively cold, dry gases which are to be measured, the single-channel CLD 70 series comes into its own.

In terms of accuracy, quality and technology both series meet the highest standards and also leave nothing to be desired in ease of maintenance.

Integration into systems can be achieved rapidly, as the necessary communication functions are already at hand.

Ease of operation.

The analyzers can be operated either by means of the integral keypad or via a PC. The user is guided through the procedure by the simple menu structure. The control system allows a range of options,

Application examples.

- Motor vehicle industry
- Motor cycle manufacturers
- Marine engine manufacture
- Catalytic converter manufacturers
- Fuel and lubricant technology
- Lean-NO_x applications
- Certification
- Testing and inspection centers

The analyzers can be used both as stand-alone solutions and integrated into systems. They are ideally suited to quality and series production inspections.

The CLD measurement method follows the AK protocol, already a standard in the automotive industry. A further reason why there is no better choice than CLD 700 and CLD 70 analyzers from ECO PHYSICS.



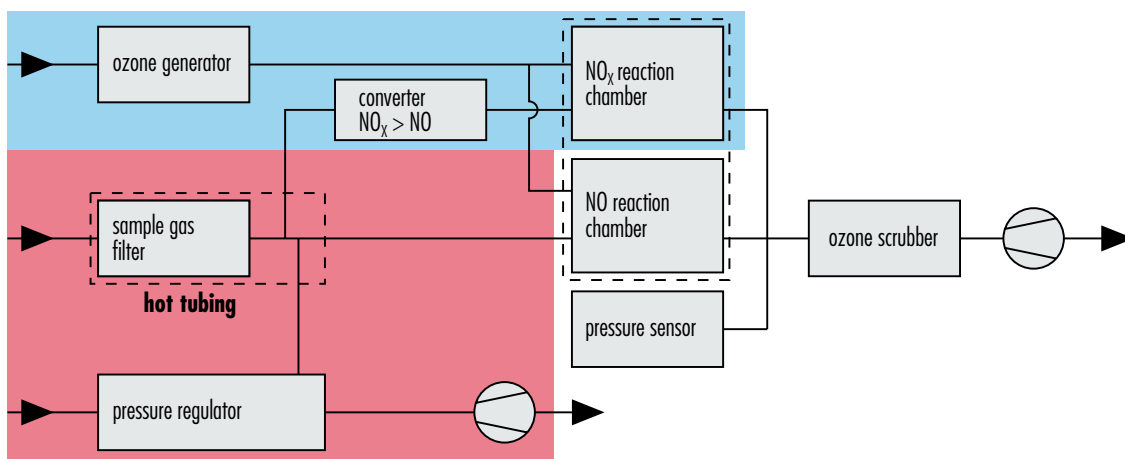
Source: Porsche

from setting the parameters for automated sequences to switching individual modules on and off.

Contact ECO PHYSICS for more details and for information on our range of accessories—for example the EFT converter efficiency tester shown below.



The modular instrument concept.



Model range summary.

	Hot, moist gas	Cold, dry gas	Number of reaction chambers
Application areas			
Engine development	•		2
Catalytic converter development	•	•	2
Certification	•	•	2
Engine manufacturing	•	•	2
Car production		•	1
Maintenance		•	1
Inspection		•	1
Measurements ranges			
0–10,000 ppm	•		2
0– 5,000 ppm		•	1
0– 500 ppm	•	•	2 or 1
0– 300 ppm		•	2

CLD 700/70 instruments are convincing on all points.

- Complete solutions for exhaust-gas analyses
- Digital interface for remote operation, measurement and monitoring
- AK command set for the standard protocol included
- Hot, moist gas can be analyzed directly from the source up to maximum values
- Measurements of cold, dry gas possible in the optimum range
- With the single-chamber CLD 70 models, either NO or NO_x measurement may be selected
- The two-chamber CLD 700 models allow NO, NO_x and NO₂ to be measured simultaneously
- Nitrogen oxide measurement with millisecond time resolution
- The modular hardware concept allows integration into existing exhaust systems



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