

## Continuous monitor for NO<sub>x</sub> and NH<sub>3</sub> Model HORIBA APNA 370 + external CU-2



### Type approval (NO<sub>x</sub>):

According to EN14211 and VDI 4202/4203 (TUEV Rheinland, Germany)  
Institute for Energy- and Environmental Technology Cologne.  
U.S. EPA: RFNA-0506-0157

### Technical Data

Principle	Reduced pressure chemiluminescence (CLD), with patented cross flow modulation oxidized catalyst for NH <sub>3</sub> measurement
Application	NO <sub>x</sub> /NH <sub>3</sub> -measurement in ambient air
Ranges	0 - 0,1 / 0,2 / 0,5 / 1,0 ppm
Optional (measurable) ranges	4 ranges selectable from 0 - 10 ppm, within 10 times range ratio
Ranging	Manual, automatic or remote controlled
Lower detectable limit	0,5 ppb (3 sigma) for NO <sub>x</sub> 5 ppb (3 sigma) <b>for NH<sub>3</sub></b>
Repeatability	± 2,0 % F.S
Linearity	± 1,0 % F.S.
Zero Drift	< LDL/day at lowest range ± 1,0 ppb/week at lowest range <b>For NH<sub>3</sub>: ± 1,0 % F.S./day at lowest range</b>
Span Drift	< LDL/day at lowest range ± 1,5 % F.S./week <b>For NH<sub>3</sub>: ± 2,0 % F.S./day at lowest range</b>
Sample gas flow rate	Approx. 3 l/min
Response Time T <sub>(90)</sub>	Within 300 s at lowest range <b>for NH<sub>3</sub></b> Within 70 s at lowest range for NO <sub>x</sub>
Display	LCD Display with touch screen ppm/ppb or µg/µg
Language	English, French, Japanese, German
Output signal	RS-232 interface with German network protocol

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Compensation	Pressure and temperature
Alarm messages	Flow alarm Pressure alarm Calibration error alarm Converter temperature Battery alarm
Ambient temperature	5 – 40 °C
Power	100/110/115/120/220/230/240 VAC, 50/60 Hz, to be specified
Dimensions for each module (Analyzer APNA-370 and Oxidizer CU-2)	Width 430 mm (19") Height 221 mm (5 HU) Depth 550 mm
Housing	19" case with telescopic rails and brackets
Weight	Approx. 21 kg plus 20 kg for CU-2
Valves for supplying zero and span gas	Solenoid valves can be installed for supplying <ul style="list-style-type: none"><li>• zero gas from central zero gas generator controlled by external Zero/Span check unit</li><li>• span gas from gas cylinder controlled by external Zero/Span check unit</li></ul>
Internal permeation device	On request