

Air Quality Multi-Gas Calibrator APMC-370

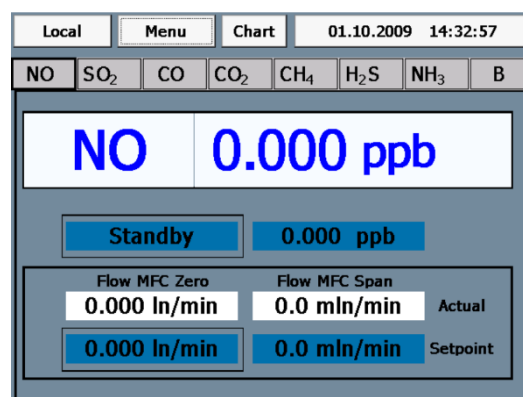
FEATURES

- High precision dilution with Mass Flow Controller (MFC)
- Optional high dynamic dilution
- Optional ozone generation with Gas Phase Titration (GPT) and permeation tubes
- Up to 10 automatic calibration cycles with up to 20 calibration points
- 19-inch rack or portable version with large touch screen



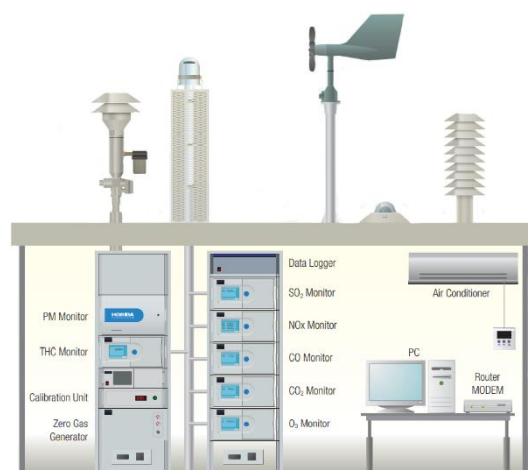
PRINCIPLE

Cylinder gases are diluted with two Mass Flow Controller (MFC) to concentrations needed for air quality analyzer. For high dynamic dilution a third MFC can be integrated. Up to eight cylinder gas connectors have small diameter inlets to reduce the time until the final dilution gas concentration is reached. Gas concentrations can be easily entered via the touch screen panel. Ozone as a test gas is available via the optional ozone generator, which in combination with NO from a gas cylinder and the gas phase titration option (GPT) gives access to NO₂ test gas. Finally, some components can be generated via optional permeation tubes which are operated at constant temperature to release a certain fixed amount into the dilution gas. Altogether the APMC-370 can handle up to eight gas components. Ambient air is used as dilution gas and needs to be purified before applied to the APMC-370. Different purifiers are available as options. If no pressurized air is available, the APMC-370 can be equipped with an internal pump.

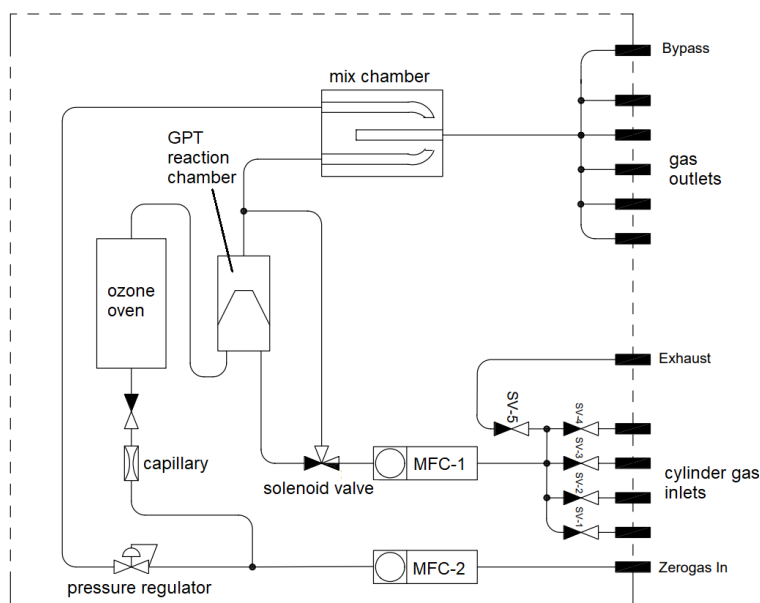


APPLICATIONS

- Ambient air quality monitoring (AQMS)
- Research Institutes / Universities



FLOW SCHEMATIC



Options:

- Up to 8 gas cylinder inlets (4 shown)
- Up to 8 gas outlets (5 shown)
- High dynamic dilution with 3rd MFC
- Ozone generation (shown)
- Gas phase titration (shown)
- Max. 2 permeation ovens
- Internal pump
- Gas purifier and absorber

Combination of options may be restricted by required space.

SPECIFICATIONS

Approvals	CE	CE
MFC flow range cylinder gas		5(2.5)-50 mL/min or 25-250 mL/min
MFC flow range dilution gas		0.2-4 L/min
Dilution Linearity		< 1% S.V.
Flow Accuracy		< 1% F.S.
Max. Ozone concentration		0.5 ppm at 1 L/min
Ozone oven temperature		70°C ± 0.1°C
Permeation oven temperature		Adjustable ± 0.1°C
Gas inlets		Max. 8 for cylinder gases (3 mm compression fitting) Zerogas (6 mm PVDF screw)
Gas outlets		Max. 8 (6 mm PVDF screw) Exhaust (6 mm PVDF screw) Bypass (6 mm PVDF screw)
Digital communication		RS232C
Digital communication protocol		Gesytec
Alarms		Flow, temperature
Languages		English
Ambient temperature		5 – 40 °C
Warm-up time		30 min
Power		100 – 240 V, 50 Hz, approx. 100 VA
Dimensions (w x d x h)		480 (19") x 550 x 132 mm (3 HU)
Weight		11 to 16 kg

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