

Applicable for both PVD(Physical Vapor Deposition) process monitoring and residual gas analysis

Process Gas Monitor M-080QA-HPM

M-080QA-HPM can monitor gases during deposition process in vacuum chamber and offer process stability by detecting problems, for example, variation of gas mixture ratio, oil back, and air leak.



Measurable for less than 1.3Pa

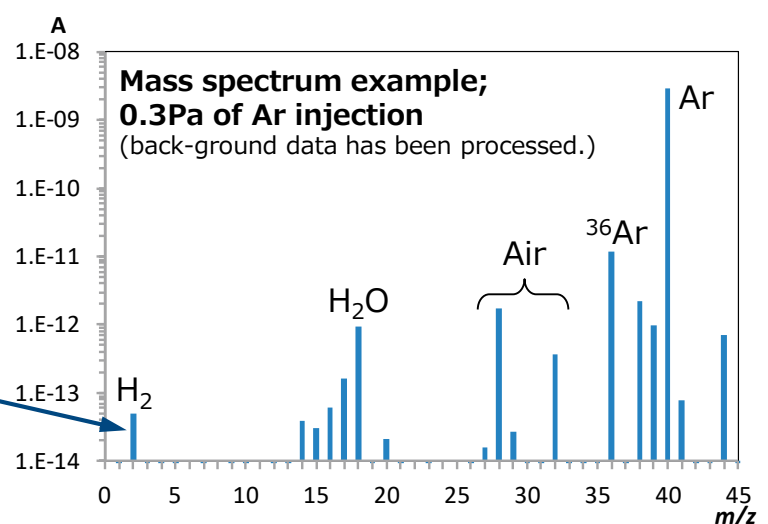
■ Features

- Detecting H₂ with high sensitivity during deposition process
- High-sensitivity and wide operating pressure range
PVD process pressure to ultrahigh vacuum
- Long maintenance cycle and low running cost
- Detecting problems during production by various alarm functions

■ Applications

- Quality control during depositon process
- Residual gas analysis
- Leak check

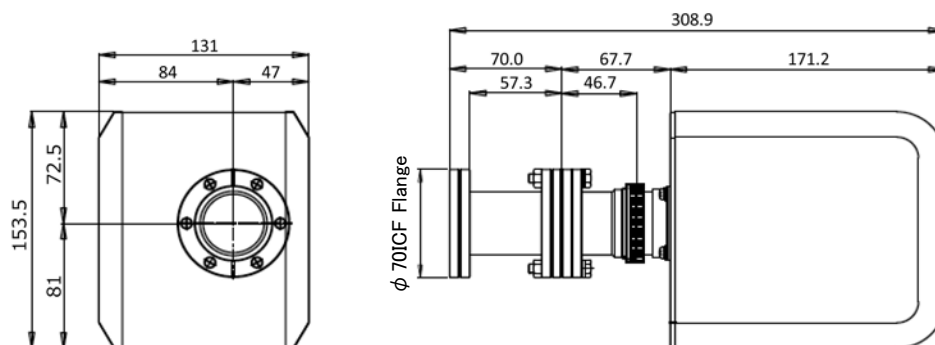
Detecting H₂ with high sensitivity



Specifications

Measurement mass range	m/z 1 ~ 80
Operating pressure	1.3Pa or less
Minimum Detection Limits	5ppm (Without H ₂) H ₂ : 100ppm
Sensitivity SEM	7.5 × 10 ⁻⁵ A/Pa or more
Sensitivity FC	7.5 × 10 ⁻⁹ A/Pa or more
Resolution	1 amu @ 10% of peak height or less
Filament type	Yttria coated iridium × 1
Connection flange	φ 70ICF
Weight	Analyzer head : 1.1kg Controller : 2.2kg
Communication interface	RS-232C / 485
Standard software	QUADVISION3 Windows7, 8.1, 10

Dimensions diagram



Ordering information

Parts Number	Model	Description	Remarks	Code
0160-12413	M-080QA-HPM	Process Gas Monitor		20097
9015-12423	HP-Y-FIL	Filament Assembly	Include jig	20494
0162-13475		RS232C Cable (1.5m) for Quadrupole Mass Spectrometer	Cross Cable	20393
0162-13483		RS232C Cable (3m) for Quadrupole Mass Spectrometer	Cross Cable	20294
0162-13491		RS232C Cable (5m) for Quadrupole Mass Spectrometer	Cross Cable	20295
0162-13506		RS232C Cable (10m) for Quadrupole Mass Spectrometer	Cross Cable	20394
0161-98146	COM-1 (USB) H	USB-RS-232C Converter*1		20430
0161-47690		RS485 Y Cable Set (5m)	RS-485 Cable 5m + Y Cable (0.2m)	20296
0161-47750		RS485 Y Cable Set (10m)	RS-485 Cable 10m + Y Cable (0.2m)	20297
0161-47713		RS485 Y Cable Set (15m)	RS-485 Cable 15m + Y Cable (0.2m)	20298
0161-47721		RS485 Y Cable Set (20m)*2	RS-485 Cable 20m + Y Cable (0.2m)	20299
0162-05406	COM-1PD (USB) H	USB-RS485 Converter*1		20392
0161-48036		AC Adapter Extension Cable (5m)	For M-070/080/101/201QA	20395
0161-48044		AC Adapter Extension Cable (10m)	For M-070/080/101/201QA	20396
0161-48052		Adapter Extension Cable (15m)	For M-070/080/101/201QA	20397
0190-00512	V-040LV-MMI	DN40 Manual L Type Valve MSB	Protection valve for M-070/080/101/201	30111

*1 Please use a designation product by all means if customer use a converter for communication.

*2 Contact us if you need the cable longer than 20m

Canon ANELVA Corporation is constantly improving its products, hence specifications are subject to change without notice.

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