

Product Specifications

Model	IR-422		IR-432
Measurement gas and full scale	SiF ₄ : 100 mTorr, CF ₄ : 100 mTorr	WF ₆ : 200 mTorr, NF ₃ : 200 mTorr	SiF ₄ : 3800 mTorr
Cell length	200 mm		30 mm
Cell set temperature	180 °C		
Heater jacket	Temperature sensor: Thermocouple K-type, Thermostat: Manual reset		
Repeatability ^{*1}	±0.5 %F.S.		
Linearity ^{*1}	±1 %F.S.		
Zero noise ^{*1}	±0.5 %F.S. (3σ)		
Ambient temperature	20-35 °C		20-50 °C
Storage temperature	0-70 °C		
Warm-up time	≥ 120 min		
Wetted material	SUS316L, BaF ₂ , FFKM	SUS316L, ZnSe, FFKM	SUS316L (Clean S [®] treatment AF type ^{*2}), BaF ₂ , FFKM
Fitting	NW25		
Leak rate	≤ 1 × 10 ⁻⁶ Pa · m ³ /s (He)		
Proof pressure	300 kPa (A)		
Analog communication	Analog output: 0-5 VDC Contact output: Error, High · Low alarm, Warm-up status Contact input: Zero calibration		Analog output: 4-20 mA Contact output: Error, High · Low alarm, Warm-up status Contact input: Zero calibration
Digital communication	RS-485 (F-Net Protocol)		
Power supply	Sensor	24 VDC, 1.5 A	
	Heater jacket	208 V, 84 VA	115 V, 132 VA
Dimensions (mm)	W433 × H117.5 × D83		W259 × H130 × D86
Weight	3.2 kg		2.8 kg

*1 The specifications are guaranteed under HORIBA STEC's inspection conditions using calibration gas.

*2 Clean S is a registered trademark of Resonac Corporation.

Model	IR-427		IR-437
Measurement gas and full scale	SiF ₄ : 100 mTorr, CF ₄ : 100 mTorr	WF ₆ : 200 mTorr, NF ₃ : 200 mTorr	SiF ₄ : 3800 mTorr
Cell length	200 mm		30 mm
Cell set temperature	180 °C		
Heater jacket	Temperature sensor: Thermocouple K-type, Thermostat: Manual reset		
Repeatability ^{*1}	±0.5 %F.S.		
Linearity ^{*1}	±1 %F.S.		
Zero noise ^{*1}	±0.5 %F.S. (3σ)		
Ambient temperature	20-35 °C		20-50 °C
Storage temperature	0-70 °C		
Warm-up time	≥ 120 min		
Wetted material	SUS316L, BaF ₂ , FFKM	SUS316L, ZnSe, FFKM	SUS316L (Clean S [®] treatment AF type ^{*2}), BaF ₂ , FFKM
Fitting	NW25		
Leak rate	≤ 1 × 10 ⁻⁶ Pa · m ³ /s (He)		
Proof pressure	300 kPa (A)		
Digital communication	EtherCAT [®] Protocol		
Power supply	Sensor	24 VDC, 1.5 A	
	Heater jacket	208 V, 84 VA	115 V, 132 VA
Dimensions (mm)	W433 × H117.5 × D83		W259 × H130 × D86
Weight	3.2 kg		2.8 kg

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