



ATLAS PUMP

EXPLOSION-PROOF AUTO SAMPLING

ATLAS Pump is a high-performance gas detection solution designed for reliable monitoring in hazardous and industrial environments.

Combining explosion-proof protection, broad gas detection capabilities, intelligent signal processing, and flexible communication options, the ATLAS Pump delivers accurate and dependable gas monitoring for a wide range of applications.

Features and Benefits



Explosion-Proof Auto Sampling

The ATLAS Pump is an **explosion-proof** gas detector equipped with automatic **sampling technology** to continuously draw and analyse gas samples in hazardous environments. This design ensures reliable gas monitoring while maintaining safe operation in areas where flammable gases or vapors may be present.



Broad Gas Detection Capabilities

The ATLAS Pump detects a wide range of gases, including **combustible, toxic, Freon, oxygen, and VOC gases**. This versatile capability allows a single detector to meet multiple monitoring needs while improving workplace safety.



Long-Term Reliability

The ATLAS Pump combines proven sensing technology with intelligent self-diagnostics to **deliver stable, dependable performance** throughout its service life. Easy sensor replacement and simplified maintenance help minimize downtime and reduce operating costs.



Fast Gas Leak Response

Equipped with a **high-performance internal pump**, the ATLAS Pump rapidly draws gas samples from remote or hard-to-reach areas for fast leak detection. This ensures quick response times and reliable monitoring in critical applications.



Intelligent Signal Processing

The ATLAS Pump utilizes **advanced signal filtering technology** to reduce the effects of particulate matter and environmental interference. By delivering cleaner and more stable measurements, it enhances detection reliability in demanding industrial and semiconductor applications.



Seamless Communication

The ATLAS Pump supports **4-20 mA, RS-485, and PoE communication**, allowing easy integration with existing monitoring systems. This flexible connectivity enables reliable real-time data transmission and simplifies system deployment across a wide range of industrial applications.

Product Specifications

Measuring Method	Measurable Gas	Response Time (T90)
Infrared	Freon Gas	< 15 sec
Infrared	Flammable Gas	< 15 sec
Infrared	Toxic Gas	< 15 sec
Infrared	Precursor Gas	< 15 sec (Default) / < 50 sec (TEOS, OMCTS)
Catalytic Cell	Flammable Gas	< 15 sec
Hot Wire Semiconductor Cell	Flammable Gas	< 20 sec
Thermal Conductivity Cell	Flammable Gas	< 15 sec
Galvanic Cell	O ₂	< 15 sec
Electrochemical Cell	O ₂	< 15 sec
Electrochemical Cell	Toxic Gas	< 45 sec (Default) / < 60 sec (O ₃) / < 70 sec (HCl) / < 100 sec (HF)
Photo-Ionization Detector (PID)	VOC Gas	Varies by gas
Measuring Type	Auto sampling type	
Accuracy	±3% / Full Scale	
Parameter Control	Non-intrusive control with a magnet bar (Calibration, Maintenance, Alarm Setting)	
Operation Mode Display	2.0" Color TFT LCD (Detector status, Gas info, Error code, etc.) LED indicator (Power, 2-Stage alarm, 1-Trouble)	
Measuring Value Display	2.0" Color TFT LCD (Gas Value, Flow Rate, etc.)	
Alarm Signal Output	3.5A @ 30VDC, 3.5A @ 125VAC (Resistive Load) / 3-SPST Relay Contact (2-Stage Alarm, 1-Trouble)	
Output Signal	Analog 4-20mA, Relay, RS-485 Modbus (Optional), PoE (Optional)	
Sampling Method	Diaphragm Pump	
Sampling Line	OD 1/4" (Standard)	
Flow Rate	0 ~ 1000 mL/min (Normal 500 mL/min)	
Housing Material	Aluminum Alloy	
Conduit Connection	Standard: PF 3/4" Option: NPT 3/4", M25, PF 1/2", NPT 1/2", M20 (with Explosion-Proof Reducer)	
Mounting Type	Wall Mount	
Operating Temperature	-10°C to +60°C	
Operating Humidity	5 ~ 99% RH (Non-Condensing)	
Dimensions	200(W) × 161(H) × 139(D) mm	
Weight	4 kg	
Operating Power	Standard Type: 9.6W @ 24VDC (Max) PoE Type: 10.1W @ 48VDC (Max)	

Certification

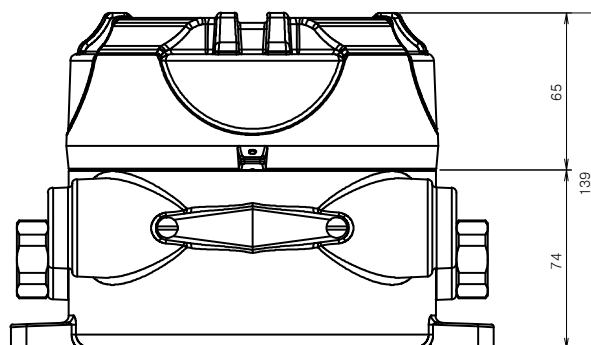
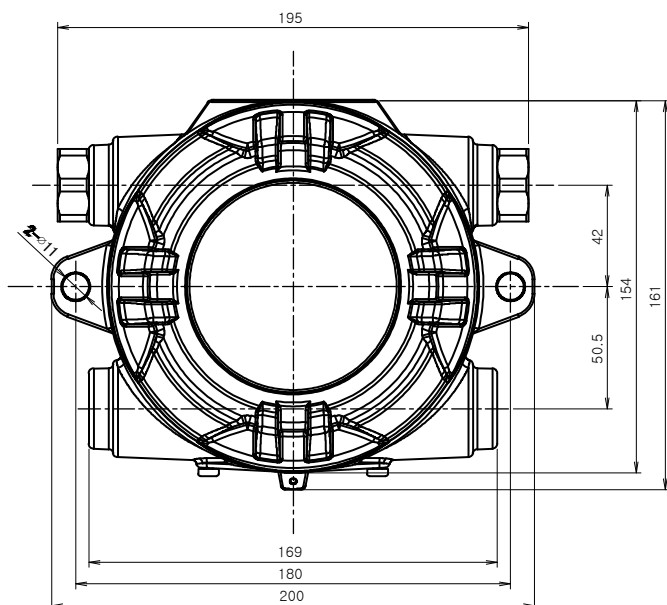
Hazardous Area Approvals	IECEX, ATEX, KCs, NEPSI, UL, TS
Regulatory Compliance	KC, CE (EMC), CPA, KFI, Thailand Ministry of Energy
Ex Marking	Ex db IIC T6/T5, Class I, Division 1, Groups A, B, C, D

Detectable Gases

Category	Sample Gases	Measuring Range
Flammable Gas	Methane, Propane, Butane, Pentane, Hexane, Ethylene, Propylene, Acetone, Ethanol, IPA, MEK, Toluene, Xylene, Styrene	0-100% LEL
Freon Gas	R-23, R-32, R-236ea	Up to 2000 ppm
Toxic Gas	Carbon Dioxide (CO ₂), Carbon Monoxide (CO), Nitrous Oxide (N ₂ O)	Varies by gas
Precursor Gas	OMCTS (Octamethylcyclotetrasiloxane), HMDS (Hexamethyldisilazane), HMDSO (Hexamethyldisiloxane)	Varies by gas
Oxygen	Oxygen (O ₂)	0 - 25 vol.%
VOC Gas	Benzene, Toluene, Xylene, Phenol	Up to 200 ppm

* This table highlights only a small selection of available gases. Contact your WatchGas representative for information on our complete portfolio of detectable gases, measurement ranges, and sensor configurations.

Drawing



Tolerance Limits: ± 0.1
Units: mm

Accessories



**ATLAS Pump
magnetic Bar**



**ATLAS Pump
Micro Filter**



**ATLAS Pump
mounting
bracket**

Controllers



**GTC-100 Smart
Controller**



**COMBI Series
System**



**404+ Remote
Monitoring
System**

Other Fixed Detectors



**LEL Point
1000**

Flammable Gas
Detector



**TOX Point
1000**

Oxygen & Toxic Gas
Detector



**LEL Point
2000**

Flammable Gas
Detector



**TOX Point
2000**

Oxygen, Toxic & VOC
Gas Detector



VOC Point

PID Gas Detector



NDIR Point 3000

Infrared Gas Detector

Beacon & Sounders



Beacon Sounder



**Beacon Sounder
ATEX**

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WatchGas is dedicated to continuously improving its products. Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.

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