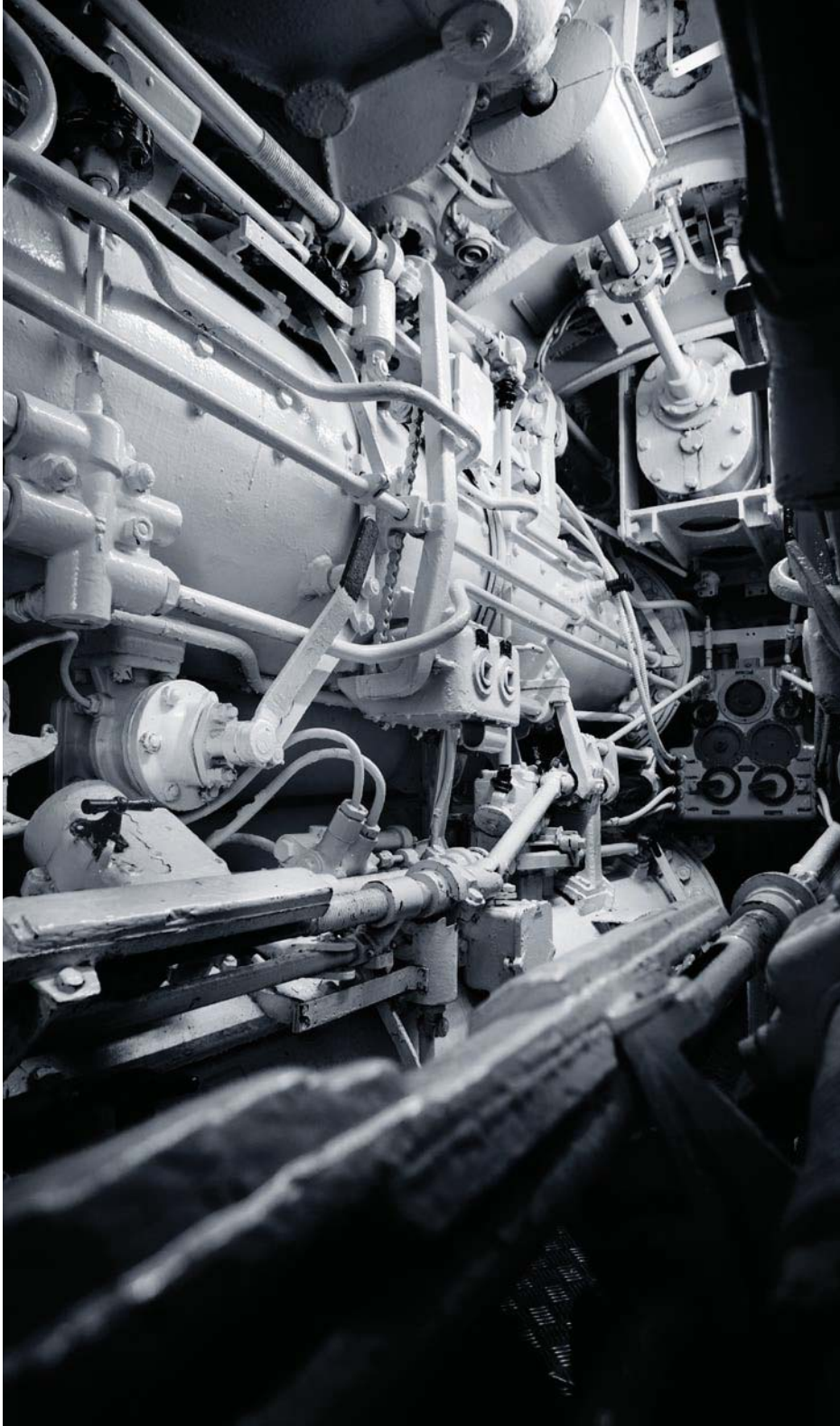


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Note
Prices shown in this document do not include shipping or applicable taxes unless explicitly stated. Please note that prices, specifications and exact product offering are subject to change without notice. Additional shipping and handling fees may apply for some products. In the event a price is published incorrectly, Honeywell International reserves the right to sell the item at the correct (actual) price. This publication is not intended to form the basis of a contract.



- Calibration every 6 months/1 year depending on site conditions
- Bump test if exposed by high concentration of gas

In response to the challenging conditions found in Industrial Refrigeration, Honeywell Analytics has developed an innovative new ammonia detector — delivering reliability, accuracy and long-lasting performance that you can't get anywhere else.

The EC-FX-NH3, an evolution of our proven Manning EC-F9-NH3, features an all-new ammonia sensor with a proprietary electrolyte that stands up to harsh environments.

Our proprietary new EC-FX sensor, backed by rigorous testing, was engineered to Honeywell's highest standards of safety, reliability and cost-effectiveness. We are so confident in the performance of our new sensor that it comes with a **three-year warranty — twice the warranty of most competing sensors.**

Rugged construction for long-term reliability

- Unlike fragile plastic housings that may break in cold temperatures, the heavy-duty steel enclosure of the EC-FX-NH3 was built to withstand cold and wet environments. The EC-FX-NH3 is also available in stainless steel.

ATMOS™ Technology for environmental flexibility

- The EC-FX-NH3 automatically adapts to its environment and can operate in -50°F and 100% humidity. So whether you're monitoring ammonia in a banana room or a blast freezer, during dry conditions or a hot-water washdown, the detector maintains accurate and reliable performance.

SensorCheck™ Technology for peace of mind

- The EC-FX-NH3 is equipped with a microprocessor that checks the electrical viability of the sensor every 24 hours. If there's a problem, SensorCheck sends an indication to your controller — so you can rest assured that the sensor is operating properly.

Optional LCD for real-time visibility

- With an easy-to-read display, you can clearly see the ammonia concentration at any given time. The optional display also makes it easy to set alarm levels and change settings — all from the detector.

Backwards compatible

- The EC-FX sensor is backwards compatible with both EC-F9-NH3 and EC-F2-NH3.

EC-FX (continued)

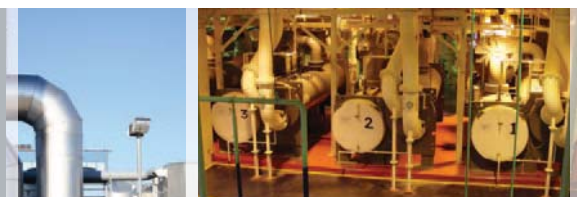
EC-FX NH3 0/100 ppm	Model Number	Order Number	Price (USD)
EC-FX NH3 0/100ppm ATMOS LCD NEMA 1 Encl	ECFX-100-ALN	ECFX-100-ALN	\$1,306.00
EC-FX NH3 0/100ppm ATMOS LCD St Steel Enc	ECFX-100-ALS	ECFX-100-ALS	\$1,496.00
EC-FX NH3 0/100ppm ATMOS NEMA 1 Enclosure	ECFX-100-AN	ECFX-100-AN	\$1,211.00
EC-FX NH3 0/100ppm ATMOS St Steel Encl	ECFX-100-AS	ECFX-100-AS	\$1,401.00
EC-FX NH3 0/100ppm LCD NEMA 1 Enclosure	ECFX-100-LN	ECFX-100-LN	\$1,111.00
EC-FX NH3 0/100ppm LCD St Steel Enclosure	ECFX-100-LS	ECFX-100-LS	\$1,301.00
EC-FX NH3 0/100ppm NEMA 1 Enclosure	ECFX-100-N	ECFX-100-N	\$1,016.00
EC-FX NH3 0/100ppm NEMA 1 Encl (301EM)	ECFX-100-N-EM	ECFX-100-N-EM	\$1,016.00
EC-FX NH3 0/100ppm Stainless Steel Encl	ECFX-100-S	ECFX-100-S	\$1,206.00

EC-FX NH3 0/200 ppm	Model Number	Order Number	Price (USD)
EC-FX NH3 0/200ppm ATMOS NEMA 1 Enclosure	ECFX-200-AN	ECFX-200-AN	\$1,211.00
EC-FX NH3 0/200ppm ATMOS St Steel Encl	ECFX-200-AS	ECFX-200-AS	\$1,401.00
EC-FX NH3 0/200ppm NEMA 1 Enclosure	ECFX-200-N	ECFX-200-N	\$1,016.00
EC-FX NH3 0/200ppm Stainless Steel Encl	ECFX-200-S	ECFX-200-S	\$1,206.00

EC-FX NH3 0/250 ppm	Model Number	Order Number	Price (USD)
EC-FX NH3 0/250ppm ATMOS LCD NEMA 1 Encl	ECFX-250-ALN	ECFX-250-ALN	\$1,306.00
EC-FX NH3 0/250ppm ATMOS LCD St Steel Enc	ECFX-250-ALS	ECFX-250-ALS	\$1,496.00
EC-FX NH3 0/250ppm ATMOS NEMA 1 Enclosure	ECFX-250-AN	ECFX-250-AN	\$1,211.00
EC-FX NH3 0/250ppm ATMOS St Steel Encl	ECFX-250-AS	ECFX-250-AS	\$1,401.00
EC-FX NH3 0/250ppm LCD NEMA 1 Enclosure	ECFX-250-LN	ECFX-250-LN	\$1,111.00
EC-FX NH3 0/250ppm NEMA 1 Enclosure	ECFX-250-N	ECFX-250-N	\$1,016.00
EC-FX NH3 0/250ppm NEMA 1 Encl (301EM)	ECFX-250-N-EM	ECFX-250-N-EM	\$1,016.00
EC-FX NH3 0/250ppm Stainless Steel Encl	ECFX-250-S	ECFX-250-S	\$1,206.00

EC-FX-NH3 Replacements	Model Number	Order Number	Price (USD)
Replacement ammonia (NH ₃) cell, 0-100/200/250 ppm <i>Note: Backwards compatible with EC-F2 & EC-F9 transmitters</i>	EC-FX-NH3-LR	EC-FX-NH3-LR	\$420.00

EC-FX Calibration Equipment	Order Number	Price (USD)
EC-FX calibration adapter	EC-FX-CA	\$55.00
EC-FX calibration kit, 29 L, 0.3 LPM regulator	EC-FX-CK1	\$240.00
Regulator 0.3 LPM, 29 L / 58 L / 103 L	EC-FX-REG2	\$151.00



EC-F9-NH3-0/500	Model Number	Order Number	Price (USD)
Ammonia (NH ₃), 0-500 ppm, NEMA 1 enclosure	EC-F9-NH3-0/500-N1	M-600343	\$900.00
Ammonia (NH ₃), 0-500 ppm, LCD, NEMA 1 enclosure	EC-F9-NH3-0/500-LCD-N1	M-510929	\$995.00
Ammonia (NH ₃), 0-500 ppm, ATMOS, NEMA 1 enclosure	EC-F9-NH3-0/500-ATMOS-N1	M-600354	\$1,095.00
Ammonia (NH ₃), 0-500 ppm, ATMOS, LCD, NEMA 1 enclosure	EC-F9-NH3-0/500-ATMOS-LCD-N1	M-510997	\$1,190.00
Ammonia (NH ₃), 0-500 ppm, stainless steel enclosure	EC-F9-NH3-0/500-ST	M-510741	\$1,090.00
Ammonia (NH ₃), 0-500 ppm, LCD, stainless steel enclosure	EC-F9-NH3-0/500-LCD-ST	M-512693	\$1,185.00
Ammonia (NH ₃), 0-500 ppm, ATMOS, stainless steel enclosure	EC-F9-NH3-0/500-ATMOS-ST	M-600361	\$1,285.00
Ammonia (NH ₃), 0-500 ppm, ATMOS, LCD, stainless steel enclosure	EC-F9-NH3-0/500-ATMOS-LCD-ST	M-510998	\$1,380.00

EC-F9-NH3-0/1000	Model Number	Order Number	Price (USD)
Ammonia (NH ₃), 0-1,000 ppm, NEMA 1 enclosure	EC-F9-NH3-0/1000-N1	M-509334	\$1,125.00
Ammonia (NH ₃), 0-1,000 ppm, stainless steel enclosure	EC-F9-NH3-0/1000-ST	M-509341	\$1,315.00
Ammonia (NH ₃), 0-1,000 ppm, LCD, NEMA 1 enclosure	EC-F9-NH3-0/1000-LCD-N1	M-511108	\$1,220.00
Ammonia (NH ₃), 0-1,000 ppm, ATMOS, NEMA 1 enclosure	EC-F9-NH3-0/1000-ATMOS-N1	M-509337	\$1,320.00
Ammonia (NH ₃), 0-1,000 ppm, ATMOS, stainless steel enclosure	EC-F9-NH3-0/1000-ATMOS-ST	M-509345	\$1,510.00
Ammonia (NH ₃), 0-1,000 ppm, ATMOS, LCD, stainless steel enclosure	EC-F9-NH3-0/1000-ATMOS-LCD-ST	M-512505	\$1,605.00

EC-F9-NH3 Replacements	Model Number	Order Number	Price (USD)
Ammonia (NH ₃) transmitter, PCB only	EC-F9-RT-NH3	M-600450	\$722.00
Ammonia (NH ₃) transmitter with ATMOS, PCB only	EC-F9-RT-NH3	M-511102	\$932.00
Replacement ammonia (NH ₃) cell, 500 ppm	EC-F2-RC-NH3	M-507975	\$304.00
Replacement ammonia (NH ₃) high range cell, 1000 ppm	EC-F2-RC-NH3	M-600043	\$405.00
Replacement ammonia (NH ₃) cell	EC-F2-NH3-RC-EXP	M-600045	\$385.00
Replacement ammonia (NH ₃) cell, 0-100/200/250 ppm	EC-FX-NH3-LR	EC-FX-NH3-LR	\$420.00

AirScan™ IR-F9



R-404a, R-22, R-507, R-134a, R-407a, R-410a, R-422d, NH₃, CO₂, HFO1234yf



The Airscan™ IR-F9 is an infrared diffusion design sensor that allows all points of detection to be monitored simultaneously. The IR-F9 responds to refrigerants in the range of 0-3,000 ppm and features SensorCheck™ technology that continually monitors sensor performance. The IR-F9 is available in an aluminum or stainless enclosure, with or without ATMOS™ technology. ATMOS technology allows for operation in environments with temperatures as low as -60°F/-50°C (super heat).

IR-F9 units configured to a full scale of 0-500 ppm are **California Air Resources Board (CARB)** compliant.

Refrigerant Specific

- Rapid response to refrigerants including R-404a, R-22, R-507, R-134a, R-407a, R-410a, R-422d, NH₃, CO₂ and HFO1234yf
- Internal monitoring of 4-20 mA loop circuitry continuously

Diffusion-Design Sensor

- Has no moving parts and doesn't require pumps or filters
- All points of detection can be monitored continuously at an affordable cost

Versatility

- Can be used with any Honeywell Analytics readout
- Standard range of 0-3,000 ppm, can be rescaled for lower trip points
- Provides a linear output of 4-20 mA as a function of refrigerant concentration
- Simple, real-time calibration eliminates maintenance downtime
- Automatically adapts to fluctuating temperatures

Long-Lasting Performance

- Unique internal reference channel compensates for dust particles, source degradation, humidity and temperature fluctuation, food odours, chemical cleaners, etc.

ATMOS™ Technology

- Allows for operation down to -60°F (-50°C) and in condensing humidity environments or during washdown (super heat)
- Automatically adapts to its environment and provides accurate and reliable performance under the harshest conditions

SensorCheck™ Technology

- Checks operating parameters of sensors and sends a notification output signal if an anomaly is identified
- Tests the sensor every 24 hours for electrical viability
- Indication can be detected by a gas monitor or PLC

Housing

- High-mass metal bench provides structural and thermal stability and greater immunity to vibration
- Superior EMI/RFI shielding

AirScan™ IR-F9 (continued)

AirScan™ IR-F9 R134a	Model Number	Order Number	Price (USD)
R134a 0-1,000 ppm, NEMA 1 enclosure	IR-F9-R134a-0/1000-N1	M-512203	\$1,112.00
R134a 0-1,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R134a-0/1000-ATMOS-ST	M-512444	\$1,610.00
R134a 0-3,000 ppm, NEMA 1 enclosure	IR-F9-R134a-0/3000-N1	M-600472	\$1,112.00
R134a 0-3,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R134a-0/3000-ATMOS-N1	M-511474	\$1,370.00
AirScan™ IR-F9 R22	Model Number	Order Number	Price (USD)
R22 0-500 ppm, NEMA 1 enclosure, CARB compliant	IR-F9-R22-0/500-N1	M-600421	\$1,217.00
R22 0-500 ppm, ATMOS, NEMA 1 enclosure, CARB compliant	IR-F9-R22-0/500-ATMOS-N1	M-600394	\$1,475.00
R22 0-500 ppm, ATMOS, stainless steel enclosure, CARB compliant	IR-F9-R22-0/500-ATMOS-ST	M-600393	\$1,715.00
R22 0-1,000 ppm, NEMA 1 enclosure	IR-F9-R22-0/1000-N1	M-510845	\$1,112.00
R22 0-1,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R22-0/1000-ATMOS-N1	M-510851	\$1,370.00
R22 0-3,000 ppm, NEMA 1 enclosure	IR-F9-R22-0/3000-N1	M-600396	\$1,112.00
R22 0-3,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R22-0/3000-ATMOS-N1	M-600428	\$1,370.00
R22 0-3,000 ppm, stainless steel enclosure	IR-F9-R22-0/3000-ST	M-600446	\$1,353.00
R22 0-3,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R22-0/3000-ATMOS-ST	M-600471	\$1,610.00
R22 0-3,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-R22-0/3000-ATMOS-SH-ST	M-700000	\$1,767.00

AirScan™ IR-F9 (continued)

AirScan™ IR-F9 R422d	Model Number	Order Number	Price (USD)
R422d 0-500 ppm, NEMA 1 enclosure, CARB compliant	IR-F9-R422d-0/500-N1	M-700016	\$1,217.00
R422d 0-500 ppm, stainless steel enclosure, CARB compliant	IR-F9-R422d-0/500-ST	M-700017	\$1,475.00
R422d 0-500 ppm, ATMOS, NEMA 1 enclosure, CARB compliant	IR-F9-R422d-0/500-ATMOS-N1	M-700018	\$1,458.00
R422d 0-500 ppm, ATMOS, stainless steel enclosure, CARB compliant	IR-F9-R422d-0/500-ATMOS-ST	M-700019	\$1,715.00
R422d 0-500 ppm, ATMOS, super heat, NEMA 1 enclosure, CARB compliant	IR-F9-R422d-0/500-ATMOS-SH-N1	M-700020	\$1,631.00
R422d 0-500 ppm, ATMOS, super heat, stainless steel enclosure, CARB compliant	IR-F9-R422d-0/500-ATMOS-SH-ST	M-700021	\$1,872.00
R422d 0-1,000 ppm, NEMA 1 enclosure	IR-F9-R422d-0/1000-N1	M-700026	\$1,112.00
R422d 0-1,000 ppm, stainless steel enclosure	IR-F9-R422d-0/1000-ST	M-700027	\$1,370.00
R422d 0-1,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R422d-0/1000-ATMOS-N1	M-700028	\$1,610.00
R422d 0-1,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R422d-0/1000-ATMOS-ST	M-700029	\$1,610.00
R422d 0-1,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-R422d-0/1000-ATMOS-SH-ST	M-700030	\$1,767.00
R422d 0-3,000 ppm, NEMA 1 enclosure	IR-F9-R422d-0/3000-N1	M-700035	\$1,112.00
R422d 0-3,000 ppm, stainless steel enclosure	IR-F9-R422d-0/3000-ST	M-700036	\$1,370.00
R422d 0-3,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R422d-0/3000-ATMOS-N1	M-700037	\$1,353.00
R422d 0-3,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R422d-0/3000-ATMOS-ST	M-700038	\$1,610.00
R422d 0-3,000 ppm, ATMOS, super heat, NEMA 1 enclosure	IR-F9-R422d-0/3000-ATMOS-SH-N1	M-700039	\$1,526.00
R422d 0-3,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-R422d-0/3000-ATMOS-SH-ST	M-700040	\$1,767.00
AirScan™ IR-F9 R404a	Model Number	Order Number	Price (USD)
R404a 0-500 ppm, NEMA 1 enclosure, CARB compliant	IR-F9-R404a-0/500-N1	M-512259	\$1,217.00
R404a 0-1,000 ppm, NEMA 1 enclosure	IR-F9-R404a-0/1,000-N1	M-510844	\$1,112.00
R404a 0-1,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R404A-0/1000-ATMOS-N1	M-700003	\$1,370.00
R404a 0-1,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R404A-0/1000-ATMOS-ST	M-512443	\$1,610.00
R404a 0-3,000 ppm, NEMA 1 enclosure	IR-F9-R404a-0/3000-N1	M-600422	\$1,112.00
R404a 0-3,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R404a-0/3000-ATMOS-N1	M-600469	\$1,370.00
R404a 0-3,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R404A-0/3000-ATMOS-ST	M-512522	\$1,610.00

AirScan™ IR-F9 (continued)

AirScan™ IR-F9 R407a	Model Number	Order Number	Price (USD)
R407a 0-500 ppm, NEMA 1 enclosure, CARB compliant	IR-F9-R407a-0/500-N1	M-700045	\$1,217.00
R407a 0-500 ppm, stainless steel enclosure, CARB compliant	IR-F9-R407a-0/500-ST	M-700046	\$1,475.00
R407a 0-500 ppm, ATMOS, NEMA 1 enclosure, CARB compliant	IR-F9-R407a-0/500-ATMOS-N1	M-700047	\$1,458.00
R407a 0-500 ppm, ATMOS, stainless steel enclosure, CARB compliant	IR-F9-R407a-0/500-ATMOS-ST	M-700048	\$1,715.00
R407a 0-500 ppm, ATMOS, super heat, NEMA 1 enclosure, CARB compliant	IR-F9-R407a-0/500-ATMOS-SH-N1	M-700049	\$1,819.00
R407a 0-500 ppm, ATMOS, super heat, stainless steel enclosure, CARB compliant	IR-F9-R407a-0/500-ATMOS-SH-ST	M-700050	\$1,872.00
R407a 0-1,000 ppm, NEMA 1 enclosure	IR-F9-R407a-0/1000-N1	M-700055	\$1,112.00
R407a 0-1,000 ppm, stainless steel enclosure	IR-F9-R407a-0/1000-ST	M-700056	\$1,370.00
R407a 0-1,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R407a-0/1000-ATMOS-N1	M-700057	\$1,370.00
R407a 0-1,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R407a-0/1000-ATMOS-ST	M-700058	\$1,610.00
R407a 0-1,000 ppm, ATMOS, super heat, NEMA 1 enclosure	IR-F9-R407a-0/1000-ATMOS-SH-N1	M-700059	\$1,526.00
R407a 0-1,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-R407a-0/1000-ATMOS-SH-ST	M-700060	\$1,767.00
R407a 0-3,000 ppm, NEMA 1 enclosure	IR-F9-R407a-0/3000-N1	M-700065	\$1,112.00
R407a 0-3,000 ppm, stainless steel enclosure	IR-F9-R407a-0/3000-ST	M-700066	\$1,370.00
R407a 0-3,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R407a-0/3000-ATMOS-N1	M-700067	\$1,353.00
R407a 0-3,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R407a-0/3000-ATMOS-ST	M-700068	\$1,610.00
R407a 0-3,000 ppm, ATMOS, super heat, NEMA 1 enclosure	IR-F9-R407a-0/3000-ATMOS-SH-N1	M-700069	\$1,526.00
R407a 0-3,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-R407a-0/3000-ATMOS-SH-ST	M-700070	\$1,767.00

AirScan™ IR-F9 R410a	Model Number	Order Number	Price (USD)
R410a 0-1,000 ppm, NEMA 1 enclosure	IR-F9-R410a-0/1000-N1	M-700075	\$1,112.00
R410a 0-1,000 ppm, stainless steel enclosure	IR-F9-R410a-0/1000-ST	M-700076	\$1,370.00
R410a 0-1,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R410a-0/1000-ATMOS-N1	M-700077	\$1,353.00
R410a 0-1,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R410a-0/1000-ATMOS-ST	M-700078	\$1,610.00
R410a 0-1,000 ppm, ATMOS, super heat, NEMA 1 enclosure	IR-F9-R410a-0/1000-ATMOS-SH-N1	M-700079	\$1,526.00
R410a 0-1,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-R410a-0/1000-ATMOS-SH-ST	M-700080	\$1,767.00
R410a 0-3,000 ppm, NEMA 1 enclosure	IR-F9-R410a-0/3000-N1	M-700085	\$1,112.00
R410a 0-3,000 ppm, stainless steel enclosure	IR-F9-R410a-0/3000-ST	M-700086	\$1,370.00
R410a 0-3,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R410a-0/3000-ATMOS-N1	M-700087	\$1,353.00
R410a 0-3,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R410a-0/3000-ATMOS-ST	M-700088	\$1,610.00
R410a 0-3,000 ppm, ATMOS, super heat, NEMA 1 enclosure	IR-F9-R410a-0/3000-ATMOS-SH-N1	M-700089	\$1,526.00
R410a 0-3,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-R410a-0/3000-ATMOS-SH-ST	M-700090	\$1,767.00

AirScan™ IR-F9 (continued)

AirScan™ IR-F9 R507a	Model Number	Order Number	Price (USD)
R507a 0-500 ppm, NEMA 1 enclosure, CARB compliant	IR-F9-R507a-0/500-N1	M-600416	\$1,217.00
R507a 0-500 ppm, ATMOS, NEMA 1 enclosure, CARB compliant	IR-F9-R507a-0/500-ATMOS-N1	M-512247	\$1,475.00
R507a 0-500 ppm, ATMOS, stainless steel enclosure, CARB compliant	IR-F9-R507a-0/500-ATMOS-ST	M-600414	\$1,715.00
R507a 0/1,000 ppm, NEMA 1 enclosure	IR-F9-R507a-0/1000-N1	M-512283	\$1,112.00
R507a 0-1,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R507a-0/1000-ATMOS-N1	M-511471	\$1,370.00
R507a 0-1,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R507A-0/1000-ATMOS-ST	M-700006	\$1,610.00
R507a 0-3,000 ppm, NEMA 1 enclosure	IR-F9-R507a-0/3000-N1	M-600417	\$1,112.00
R507a 0-3,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-R507a-0/3000-ATMOS-N1	M-600410	\$1,370.00
R507a 0-3,000 ppm, stainless steel enclosure	IR-F9-R507a-0/3000-ST	M-511611	\$1,353.00
R507a 0-3,000 ppm, ATMOS, stainless steel enclosure	IR-F9-R507a-0/3000-ATMOS-ST	M-600415	\$1,610.00

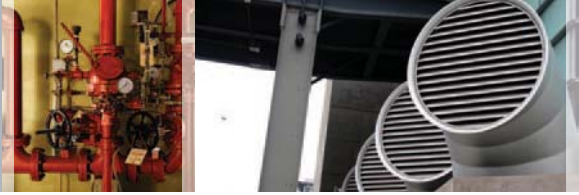
AirScan™ IR-F9 Carbon Dioxide (CO2)	Model Number	Order Number	Price (USD)
Carbon dioxide (CO2), 0-10,000 ppm, NEMA 1 enclosure	IR-F9-CO2-1%-N1	M-511793	\$1,112.00
Carbon dioxide (CO2), 0-10,000 ppm, ATMOS, NEMA 1	IR-F9-CO2-1%-ATMOS-N1	M-511821	\$1,370.00
Carbon dioxide (CO2), 0-10,000 ppm, ATMOS, super heat, NEMA 1 enclosure	IR-F9-CO2-0/1%-ATMOS-SH-N1	M-511866	\$1,526.00
Carbon dioxide (CO2), 0-10,000 ppm, stainless steel enclosure	IR-F9-CO2-1%-ST	M-512127	\$1,353.00
Carbon dioxide (CO2), 0-10,000 ppm, ATMOS, stainless steel enclosure	IR-F9-CO2-1%-ATMOS-ST	M-511858	\$1,610.00
Carbon dioxide (CO2), 0-10,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-CO2-1%-ATMOS-SH-ST	M-512193	\$1,767.00
Carbon dioxide (CO2), 0-30,000 ppm, NEMA 1 enclosure	IR-F9-CO2-3%-N1	M-511825	\$1,112.00
Carbon dioxide (CO2), 0-30,000 ppm, ATMOS, NEMA 1	IR-F9-CO2-3%-ATMOS-N1	M-511828	\$1,370.00
Carbon dioxide (CO2), 0-30,000 ppm, ATMOS, super heat, NEMA 1	IR-F9-CO2-3%-ATMOS-SH-N1	M-511829	\$1,527.00
Carbon dioxide (CO2), 0-30,000 ppm, ATMOS, stainless steel enclosure	IR-F9-CO2-3%-ATMOS-ST	M-512094	\$1,610.00

AirScan™ IR-F9 (continued)

AirScan™ IR-F9 Ammonia (NH₃)	Model Number	Order Number	Price (USD)
Ammonia (NH ₃), 0-20,000 ppm, NEMA 1 enclosure	IR-F9-NH3-0/2%-N1	M-512345	\$1,569.00
Ammonia (NH ₃), 0-20,000 ppm, ATMOS, NEMA 1 enclosure	IR-F9-NH3-0/2%-ATMOS-N1	M-512342	\$1,826.00
Ammonia (NH ₃), 0-20,000 ppm, stainless steel enclosure	IR-F9-NH3-0/2%-ST	M-512352	\$1,810.00
Ammonia (NH ₃), 0-20,000 ppm, ATMOS, stainless steel enclosure	IR-F9-NH3-0/2%-ATMOS-ST	M-512353	\$2,067.00
Ammonia (NH ₃), 0-20,000 ppm, ATMOS, super heat, stainless steel enclosure	IR-F9-NH3-0/2%-ATMOS-SH-ST	M-700005	\$2,224.00

AirScan™ IR-F9 HFO1234yf	Model Number	Order Number	Price (USD)
HFO1234yf 0/500, NEMA 1 enclosure, CARB compliant	IR-F9-HFO1234YF-0/500-N1	M-700261	\$1,217.00
HFO1234yf 0/500, ATMOS, NEMA 1 enclosure, CARB compliant	IR-F9-HFO1234YF-0/500-ATMOS-N1	M-700262	\$1,475.00
HFO1234yf 0/500, stainless steel enclosure, CARB compliant	IR-F9-HFO1234YF-0/500-SS	M-700263	\$1,458.00
HFO1234yf 0/500, ATMOS, Stainless Steel Enclosure, CARB compliant	IR-F9-HFO1234YF-0/500-ATMOS-SS	M-700264	\$1,715.00
HFO1234yf 0/1000, NEMA 1 enclosure	IR-F9-HFO1234YF-0/1000-N1	M-700266	\$1,112.00
HFO1234yf 0/1000, ATMOS, NEMA 1 enclosure	IR-F9-HFO1234YF-0/1000-ATMOS-N1	M-700267	\$1,370.00
HFO1234yf 0/1000, ATMOS, NEMA 1 enclosure	IR-F9-HFO1234YF-0/1000-SS	M-700268	\$1,353.00
HFO1234yf 0/1000, ATMOS, stainless steel enclosure	IR-F9-HFO1234YF-0/1000-ATMOS-SS	M-700269	\$1,610.00
HFO1234yf 0/3000, NEMA 1 enclosure	IR-F9-HFO1234YF-0/3000-N1	M-700271	\$1,112.00
HFO1234yf 0/3000, ATMOS, NEMA 1 enclosure	IR-F9-HFO1234YF-0/3000-ATMOS-N1	M-700272	\$1,370.00
HFO1234yf 0/3000, ATMOS, NEMA 1 enclosure	IR-F9-HFO1234YF-0/3000-SS	M-700273	\$1,353.00
HFO1234yf 0/3000, ATMOS, stainless steel enclosure	IR-F9-HFO1234YF-0/3000-ATMOS-SS	M-700274	\$1,610.00

Vent Line



NH₃, R22



Ammonia range is 0 - 10,000 ppm
 Operating temperature is -20°F to 120°F
 17-24VDC at 200mA

- Sensor - Aluminum NEMA 4
- Sensor - 4 1/2" x 3 1/8" x 3 1/8"
- Pre-amp - Stainless Steel NEMA 4
- 4/20 mA pre-amp enclosure - 6" x 4" x 4"
- 3 lbs., sensor only
- 15 lbs., with mounting kit

Cable Requirements:

- Pre-amp to readout - #18/3 shielded cable (Belden #8770), maximum run length 1,500 feet
- Sensor to pre-amp - #16 AWG, 4 conductors, non-shielded for runs up to 25 feet

The Vent Line sensor continuously monitors vent line headers for ammonia and fluorocarbons. High concentrations of refrigerant gases in vent lines are warnings of system overpressure or leaking relief valves. Either can pose danger to employees and equipment. Wasted refrigerants are costly and can mean overtime labor and plant downtime. Designed to be installed in refrigeration vent lines, the VL sensor is supplied with a 2 in. cast steel "T", plug and nipple.

The sensor is embedded in a 2 in. forged steel bull plug and houses a four-point terminal strip for electrically connecting the sensor and preamp. The linear 4-20 mA output pre-amp is housed in a separate enclosure.

The Vent Line leak detector is designed to be electrically connected to and monitored by all Honeywell Analytics readouts or can send a signal directly to a PLC.

Vent Line solid-state sensors are broad spectrum devices and will sense other vapors in addition to the target gas. Please discuss details of the application with Honeywell Analytics, including other gases that may be present and whether the vent line is discharging to atmosphere or water tank.

Features and Benefits

- Improves personnel, product and equipment safety
- Extremely reliable sensor assembly
- Easy to calibrate and adjust
- Simple to install
- Continuous monitoring
- Input directly to central alarm systems
- Linear 4-20 mA output

Vent Line Sensors	Model Number	Order Number	Price (USD)
Ammonia (NH ₃) Vent Line sensor, linear pre-amp, with mounting kit	VL-F7-NH3-N4-LPA-MK	M-510000	\$1,195.00
R22 Vent Line sensor, linear pre-amp, with mounting kit	VL-F7-R22-N4-LPA-MK	M-600104	\$1,195.00
Ammonia (NH ₃) Vent Line sensor, linear pre-amp, no mounting kit	VL-F7-NH3-N4-LPA-No	M-600253	\$1,174.00

Vent Line Replacement Sensors	Model Number	Order Number	Price (USD)
Replacement Vent Line sensor	VL-F7-NH3-N4-RA	M-600105	\$684.00
Replacement linear pre-amp (in stainless steel enclosure) for Vent Line sensor	VL-LPA	M-600106	\$621.00



Sensepoint® XCD

Flammable, Toxic & Oxygen Gas Detector and Transmitter

NH₃, CH₄, COMB (LEL)



The Sensepoint XCD range provides comprehensive monitoring of flammable, toxic and Oxygen gas hazards in potentially explosive atmospheres, both indoors and outdoors. Users can modify detector operation using the LCD and magnet switches without ever needing to open the unit. This enables one-man, non-intrusive operation and reduces routine maintenance time and costs.

One-Stop Shop

- Flammable (catalytic or infrared), toxic and oxygen versions available
- New and retrofit applications
- Suitable for indoor or outdoor use
- Aluminium explosion-proof housing
- IP66 as standard

Proven and Reliable Sensor Technology

- Surecell™ electrochemical sensors
- Reflex® sensor health check
- Poison immune infrared sensors
- Poison resistant catalytic bead sensors
- Long life sensors

Easy to Use

- User friendly and intuitive tri-colour backlit display with digits, bar graph and icons
- Fully configurable via magnetic switches
- Selectable sink or source 4-20 mA output
- Auto-inhibit during maintenance
- Modbus communications for remote diagnostics/configuration

Cost Effective

- Common transmitter platform
- Minimal training required
- Reduced spares
- Non-intrusive, one-man operation
- Plug-in sensor replacement
- Modbus multi drop option offers cabling savings

Simple Installation

- Plug-in display module removes to give access to terminal area
- Integral mounting bracket
- 2 x 3/4 in. NPT cable/conduit entries
- Removable plug/socket type terminal blocks for ease of wiring
- Sink/source switch to suit preferred wiring topology

Range of Optional Accessories

- Remote sensor gassing kit
- Duct mounting kit
- Calibration gas flow housing
- Collecting cone

Approvals

- Approvals
- UL/c-UL–Class I, Division 1, Groups B, C and D, Class I, Division 2, Groups B, C & D, Class II, Division 1, Groups E, F & G, Class II, Division 2, Groups F & G. -40°C to +65°C
- ATEX Ex II 2 GD Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66
- IEC Ex d IIC Gb T6 (Ta -40°C to +65°C) Ex tb IIIC T85°C Db IP66

Sensepoint® XCD (continued)

UL/cUL/CSA/INMETRO APPROVAL (LM25)	Order Number	Price (USD)
UL/CSA approved flammable catalytic bead sensor, pre-calibrated for 0-20% LEL ammonia (NH ₃), ¾ in. NPT entry	SVIP3701	\$956.00
Combustible (CH ₄) explosion proof transmitter (Cat Bead), 4-20 mA, 3 relays, Modbus, 0-100% aluminum enclosure	SPXCDULNFX	\$955.00

Sensepoint XCD Replacement Toxic, Flammable, and Oxygen (O₂) cartridges	Order Number	Price (USD)
Flammable catalytic 0-100%LEL (20.0 to 100.0% LEL)	SPXCDXSFXSS	\$298.00

Accessories, Replacement Sensor Cartridges & Spares	Order Number	Price (USD)
Calibration cap	S3KCAL	\$63.00
Collecting cone for use with lighter than air gases	SPXCDCC	\$63.00
Duct mounting kit	SPXCDDMK	\$393.00
Mounting bracket (includes bolts, nuts, brackets)	SPXCMTBR	\$58.00
Sunshade/deluge protection	SPXCSDP	\$230.00
Sensepoint XCD standard weather protection	SPXCDWP	\$51.00
Sensor retainer with locking screw	SPXCDSRLS	\$63.00
Allen key for stopper	SPXCDAKS	\$14.00
Hex wrench for earth screw	SPXCDHWES	\$14.00
Earth bracket and screws	SPXCDEBS	\$17.00
Magnetic wand	SPXCDMAG	\$32.00
Replacement display module for FL and IR	SPXCDDMF	\$333.00
Replacement terminal module for FL and IR	SPXCDTMF	\$335.00



GasAlert EXTREME

Single-Gas Detector

NH₃



Compact and affordable, the GasAlert Extreme this single gas detector offers easy on/off operation and extended longevity with a field-replaceable battery and sensor. A wide range of tamperproof user options and multi-language display make the GasAlert Extreme an ideal solution for a variety of applications; plus, datalogging is now standard on all units. Calibration is a simple automatic procedure and is compatible with BW's MicroDock II automatic test and calibration system.

Standard Package Contents

- Detector complete with sensor, stainless steel alligator clip and concussion-proof housing
- Calibration/test cap and hose
- Manual
- Multi-language CD manual

GasAlert Extreme	Model Number	Order Number	Price (USD)
Ammonia (NH ₃) with yellow housing, 0-100 ppm	GAXT-A-DL	115050-L3	\$508.00
Ammonia (NH ₃) with yellow housing, 0-400 ppm	GAXT-A2-DL	119141-L3	\$508.00

GasAlert Extreme Consumables	Model Number	Order Number	Price (USD)
Ammonia (NH ₃) (range 0-100 ppm)	SR-A04	113588-L3	\$405.00
Ammonia (NH ₃) (range 0-400 ppm)	SR-A204	125226-L3	\$405.00

GasAlert Extreme Accessories	Model Number	Order Number	Price (USD)
Test cap and hose replacement	GA-TC-1	131635-L3	\$13.00

BW Micro5

Multi-Gas Detector



H₂S, CO, O₂, NH₃, PID and combustibles (LEL)



Simultaneously monitor and display up to five atmospheric hazards with the GasAlertMicro 5 Series. Adaptable to a variety of applications, the GasAlertMicro 5 Series has an extensive selection of user-settable field options and is available as either a standard toxic gas model or a PID model for the detection VOCs.

Use the passcode function to prevent unauthorized modifications of the instrument's settings. Compatible with BW's MicroDock II automatic test and calibration system, the GasAlertMicro 5 Series is unparalleled in its versatility, performance and overall value.

Standard Package Contents

Standard features of BW products:

- Continuous LCD shows real-time gas concentrations
- Water-resistant
- Automatic calibration procedure; compatible with BW MicroDock II automatic test and calibration station
- Full function self-test of sensor, battery status, circuit integrity and audible/visual alarms on start up
- Bright wide-angled visual alarm bars
- Built-in concussion-proof boot

Additional GasAlertMicro 5 Features:

- Integral motorized pump option for remote sampling
- Equipped with internal vibrating alarm for high noise areas
- Two power options: AA alkaline or rechargeable hot-swappable battery packs
- Multi-language support in English, French, German, Spanish and Portuguese

BW Micro5	Model Number	Order Number	Price (USD)
M5 NH3, Alkaline Battery, Pump, Data Logging, Yellow, NA	50104941-358		\$1,100.00
M5 w/ O2, LEL, H2S, CO, NH3, Rechargeable Battery, Pump, Data Logging	50104941-047		\$1,775.00
M5 w/ O2, LEL, H2S, CO, NH3, Rechargeable Battery, Data Logging	50104941-077		\$1,650.00
M5 w/ O2, LEL, PID, NH3, Rechargeable Battery, Pump, Data Logging	50104941-123		\$2,140.00



MultiRAE Lite

Portable Multi-Gas Monitor

NH₃



The MultiRAE Lite is the optimal gas monitor for personal protection and leak detection applications. The MultiRAE Lite is available in pumped and diffusion versions and features the broadest selection of sensor options in its class. The MultiRAE Lite can be configured to exactly meet the detection needs and compliance requirements of various countries, industries, and applications.

Versatile. Proven.

- Unmistakable five-way local and remote wireless notification of alarm conditions including Man Down Alarm2
- Over 25 interchangeable sensor options, including PID4 for VOCs, NDIR₅ and catalytic for combustibles, and NDIR for CO₂
- Intelligent sensors store calibration data, so they can be swapped in the field
- Large graphical display with easy-to-use, icon-driven user interface
- Continuous datalogging (6 months for 5 sensors, 24x7)

MultiRAE Lite	Model Number	Order Number	Price (USD)
MultiRAE Lite Pump Non Wireless Monitor, 0-100ppm NH ₃	MAB3-000008-020		\$2,564.00
MultiRAE Lite Pump NonWireless w/Cal Kit, 0-100ppm NH ₃	MAB3-000008-021		\$3,200.00

HA20, HA40 & HA71 Digital Gas Controllers



Honeywell Analytics offers a family of gas detection controllers that monitor 2, 4, 8, or 16 points of gas detection. Our digital gas controllers are designed to work in the harshest industrial environments. These controllers are rated for Class I, Div. 2, Groups A, B, C, and D.

Enhanced Technology

- Accepts inputs from up to two (HA-20) or four (HA-40) 4-20 mA sensors transmitters. Internal power supply generates 24 Vdc and provides 15 watts total system power; optional 50 watts supply available.
- CSA certified to C22.2 NO. 152 for combustible detection and Class I, Div. 2, Groups A,B,C,D CE mark
- 3 independent alarm levels per channel. Relay Acknowledge feature allows silencing of external audible devices during existing alarm conditions
- Graphic LCD readout displays monitored data as bar graphs, trends and engineering units. Alarm LED's flash when new and become steady after acknowledged
- Two standard SPDT common alarm relays for HORN, HIGH, WARN or FAULT
- Internal 50 watt power supply provides more room to install wiring

Beneficial Options

- Optional discrete channel alarm relays are available
- Options such as Modbus slave RS-485 serial port, data logging, 4-20 mA outputs, discrete alarm relays and others are supported
- Cal Mode offers pushbutton zero/span calibration for direct sensor interface applications. Authorization Mode allows locking of critical configuration variables
- Touch and magnetic keypad for nonintrusive operation in potentially hazardous locations
- NEMA 4X (Div. 2 certified) and Explosion-Proof wall mount packaging options available

HA20, HA40 & HA71

Digital Gas Controllers

HA20 & HA40

The HA20 and HA40 controllers are designed to provide simultaneous display and alarm functions for two (HA20) or four (HA40) 4-20 mA sensor transmitters. Each system has three independent alarm levels per channel. HA40 options include an RS-485 Modbus slave port that allows up to 128 HA40's to be multi-dropped into a single data highway.

HA20 2-Channel Controllers Standard Configurations	Order Number	Price (USD)
Two channel NEMA 4X controller with 6 discrete relays	HA20PY	\$2,009.00
Two channel NEMA 4X controller, 6 discrete relays, Class I, Div. 2 strobe	HA20PY-S	\$2,489.00
Two channel painted steel controller with 6 discrete relays	HA20PCS	\$2,085.00
Two channel painted steel controller, 6 discrete relays, Class I, Div. 2 strobe	HA20PCS-S	\$2,565.00
Two channel stainless steel controller with 6 discrete relays	HA20SS	\$3,430.00
Two channel stainless steel controller, 6 discrete relays, Class I, Div. 2 strobe	HA20SS-S	\$3,910.00

HA20 2-Channel Controllers Custom Configurations	Order Number	Price (USD)
Compact Enclosure - Two channel NEMA 4X controller - custom configuration <i>Note: internal power supply limited to 15W - 1000-2259 external power supply required increase to 50W</i>	HA20N4	\$1,168.00
Two channel NEMA 4X controller - custom configuration	HA20PY-C	\$1,929.00
Two channel painted steel controller - custom configuration	HA20PCS-C	\$1,938.00
Two channel stainless steel controller - custom configuration	HA20SS-C	\$3,350.00

HA20 2-Channel Controllers I/O Options	Order Number	Price (USD)
Dual 4-20 mA analog input	10-0221-2	\$102.00
Dual 4-20 mA analog output	10-0223	\$149.00
One bridge sensor / one EC sensor input combo	10-0216	\$137.00
Dual bridge sensor input	10-0219	\$147.00
Relay option to add six 5 amp Form C relays	10-0222	\$175.00

HA20 2-Channel Controllers Accessories	Order Number	Price (USD)
Div. 2 red xenon strobe light (includes mounting)	10-0284	\$481.00
Div. 2 amber xenon strobe light (includes mounting)	10-0285	\$481.00
100db piezo audible (compact NEMA 4X enclosure only - general purpose)	1000-1892	\$161.00
50 watt NEMA 4X Div. 2 external power supply - for use with HA20N4	1000-2259	\$371.00
50 watt NEMA 4X Div. 2 - internal power supply	10-0315	\$389.00
550V A/300 watt UPS / surge protector with power loss relay	10-0287	\$998.00

HA20, HA40 & HA71 (continued)

HA40 4-Channel Controllers Standard Configurations	Order Number	Price (USD)
Four channel NEMA 4X controller with 6 discrete relays	HA40PY	\$2,392.00
Four channel NEMA 4X controller, 6 discrete relays, Class I, Div. 2 strobe	HA40PY-S	\$2,872.00
Four channel NEMA 4X controller, 6 discrete relays, Class I, Div. 2 strobe, RS-485 Modbus RTU interface	HA40PY-S-M	\$3,093.00
Four channel painted steel controller, with 6 discrete relays	HA40PCS	\$2,468.00
Four channel painted steel controller, 6 discrete relays, Class I, Div. 2 strobe	HA40PCS-S	\$2,948.00
Four channel painted steel controller, 6 discrete relays, Class I, Div. 2 strobe, RS-485 Modbus RTU interface	HA40PCS-S-M	\$3,169.00
Four channel stainless steel controller with 6 discrete relays	HA40SS	\$3,813.00
Four channel stainless steel controller, 6 discrete relays, Class I, Div. 2 strobe	HA40SS-S	\$4,293.00
Four channel stainless steel controller, 6 discrete relays, Class I, Div. 2 strobe, RS-485 Modbus RTU interface	HA40SS-S-M	\$4,514.00

HA40 4-Channel Controllers Custom Configurations	Order Number	Price (USD)
Four channel NEMA 4X controller - custom configuration	HA40PY-C	\$2,220.00
Four channel painted steel controller - custom configuration	HA40PCS-C	\$2,300.00
Four channel stainless steel controller - custom configuration	HA40SS-C	\$3,712.00

HA40 4-Channel Controllers I/O Options	Order Number	Price (USD)
Four channel 4-20 mA analog input PCB	10-0221-4	\$114.00
Four channel 4-20 mA output	10-0308	\$230.00
Four channel bridge sensor input	10-0309	\$269.00
RS-232 / RS-485 Modbus RTU addressable interface	10-0253	\$222.00
Relay option to add six 5 amp Form C relays	10-0222	\$175.00

HA40 4-Channel Controllers Accessories	Order Number	Price (USD)
Div. 2 red xenon strobe light (includes mounting)	10-0284	\$481.00
Div. 2 amber xenon strobe light (includes mounting)	10-0285	\$481.00
50 watt NEMA 4X Div. 2 - internal power supply	10-0315	\$389.00
550V A/300 watt UPS / surge protector with power loss relay	10-0287	\$998.00

HA20, HA40 & HA71 (continued)

HA71

The Honeywell Analytics HA71 16 Channel Digital Gas Controller is a Class I, Div. 2 controller designed to provide simultaneous display and alarm functions for up to 16 input variables. A graphic LCD displays monitored data as trends, bar graphs and engineering units. Three adjustable alarm levels are provided per channel. Relay outputs allow control of beacons, horns and other alarm events. A horn relay may be set for steady or pulsing operation. Analog inputs may be accepted and conditioned via sensor specific analog input cards. The standard Modbus Master port allows input data to be retrieved from Modbus slave devices.

Enclosure options include a NEMA 4X enclosure and 19 in. rack/panel mount enclosure. These package styles support addition of up to 7 I²C option board footprints (3 without 10-0180 expansion kit option) inside each respective enclosure. Additional options may be added externally or in other enclosures. Includes magnetic keypad for non-intrusive control.

HA71 8 & 16-Channel Controllers Standard Configurations	Order Number	Price (USD)
HA71 in NEMA 4X enclosure, 8 channel, standard configuration	HA71N4-8	\$5,533.00
HA71 in NEMA 4X enclosure, 16 channel, standard configuration	HA71N4-16	\$6,672.00

HA71 8 & 16-Channel Controllers Custom Configurations	Order Number	Price (USD)
Panel mount rack including bezel/rack hardware and magnetic keypad for non-intrusive control	HA71PM	\$3,845.00
HA71 in NEMA 4X enclosure including magnetic keypad for non-intrusive control	HA71N4	\$3,959.00

HA71 8 & 16-Channel Controllers I/O Options	Order Number	Price (USD)
I ² C analog 8 input board including EXC terminals	10-0158	\$335.00
I ² C catalytic bead LEL sensor / mA input board	10-0191	\$420.00
Dual catalytic bead LEL module (requires 10-0191)	10-0192	\$203.00
I ² C RTD / resistive / 4-20 mA 8 input board	10-0170	\$503.00
I ² C analog 4-20 mA 8 output board	10-0167	\$335.00
RS-485 to RS-232 converter (RS-485 RTU to PC DB9)	10-0177	\$549.00
I ² C printer interface with parallel, RS-232, and RS-422 ports	10-0229	\$579.00
Auxiliary common alarm relay board (additional Form C Relay for ALM 1, ALM 2 and HORN)	10-0144	\$128.00
I ² C discrete alarm relay board (8, 5A Form C relays)	10-0195	\$372.00
NEMA 4X expansion enclosure for up to 8 option PCB's	10-0178	\$533.00
NEMA 4X expansion plate (adds up to 4 option positions)	10-0180	\$122.00
85-240 V _{AC} universal input 150 watt 24 V _{DC} power supply	10-0172	\$498.00
100db piezo audible alarm added to NEMA 4X enclosure	1000-1892	\$161.00
Amber/red dual light stack with 80db horn; general purpose	1000-1906	\$762.00
Human/machine interface (HMI) software package (CD)	HA-71-HMI	\$3,326.00

HA71 8 & 16-Channel Controllers Accessories	Order Number	Price (USD)
Replacement main I/O PCB for HA71/XP	10-0142	\$609.00
Replacement main I/O PCB for HA71PM (ribbon connector on circuit side of PCB)	10-0213	\$569.00
Replacement HA71 flat panel lcd module	10-0006	\$709.00
Replacement complete HA71 front panel electronic nest assembly including 10-0006 LCD	10-0185	\$2,368.00
I ² C 6 in. I/O cable	0010-1110	\$7.00
I ² C 10 in. I/O cable	0010-1180	\$11.00
"Small red" magnetic wand for NEMA 4X Enclosures	1000-0076	\$21.00

GM-JR

Readout Module



The GM-JR Readout Module provides a calibrated 20 segment LED bargraph, alarm and fault LEDs, single trip point in 5% increments, and relay output. This versatile module provides a readout and relay inside a sensor housing or can be used as a remote warning device showing gas concentration levels, e.g., at a machine room entrance. The basic GM-JR Readout Module is mounted in the door of its own enclosure for easy viewing, and has a separate terminal board for the optional sensor and/or power cable connections. It is available in "stand-alone" and "feed-through" designs.

GM-JR Readout Module	Model Number	Order Number	Price (USD)
GM-JR, feed-through configuration, NEMA 1 enclosure	GM-JR-N1-FT	M-510426	\$715.00
GM-JR, stand alone configuration, NEMA 1 enclosure	GM-JR-N1-SA	M-600024	\$715.00
GM-JR power supply, 24 V _{DC} , 1A	GM-JR-PS	M-600031	\$125.00
GM-JR, stand alone configuration, stainless enclosure	GM-JR-ST-SA	M-511326	\$971.00
GM-JR, feed-through configuration, stainless enclosure	GM-JR-ST-FT	M-700004	\$971.00



AirAlert 96d

Multi-Channel Readout



The AirAlert 96d is designed for installation and operational simplicity for continuous monitoring and control of toxic gases, combustible gases and oxygen hazards, provides continuous monitoring of up to 96 connected sensors on three distinct channels. Installation costs are minimized by using addressable BACnet/IP or RS-485 Modbus communication protocol. Only two pairs of wires are required to connect all of the gas sensors and relay modules to one of the controller's three input channels. The AirAlert 96d provides a full array of displays, user-friendly menu-driven program allows for minor fine-tuning of the sequence of operation to reconfiguration of the entire network, automatic datalogging capability, cast aluminum enclosure.



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96 Sensor Capacity

- Supports up to 96 network devices
- Three distinct channels act as the nerve centre of a modular gas detection network

Flexible Operation

- Modbus compatible; with BACnet/IP available
- Expands to handle up to 96 transmitters or relay modules
- Programmable time delays
- Integrated time clock enables scheduling of system operations

Centralized Information

- Interface with or function individually with plant control

Menu-Driven Program

- Easily fine-tune applications ranging from minor operational sequences to reconfiguration of entire network
- Simple push-button program facilitates adjustments

Customizable

- Supports any combination of Honeywell Analytics gas sensors, including NH₃, CO₂, H₂, CO, Cl₂, CFC's, HCFC's, HFC's, CH₄, O₂, NO₂, and more
- Field-programmable alarm levels for each sensor
- Zoning capability allows for up to 126 zones

Immediate At-a-Glance Status

- 122 x 32 alphanumeric LCD display provides continuous information for the entire network

Automatic Datalogging Capability

- Controller provides automatic datalogging within cast aluminum enclosure
- Sensor concentrations and alarms is recorded for analysis

Easy Installation

- Cost is reduced by addressable RS-485 Modbus communication protocol
- Installation requires only two pairs of wires to connect each gas sensors and relay modules to one of the controller's three input channels

AirAlert 96D Multi-Channel Readout	Model Number	Order Number	Price (USD)
Gas detection controller with data logger	AA96D-DLC	AA96D-DLC	\$2,995.00
Gas detection controller with data logger and BACnet output	AA96D-DLC-BIP	AA96D-DLC-BIP	\$3,411.00
Controller with datalogger, cast aluminum enclosure, Title 24 Compliant	AA96DC24-DLC	AA96DC24-DLC	\$3,580.00
Controller with datalogger, BACnet/IP output, cast aluminum enclosure, Title 24 Compliant	AA96DC24-DLC-BIP	AA96DC24-DLC-BIP	\$3,996.00

AirAlert 96D Interface Modules	Model Number	Order Number	Price (USD)
AirAlert RM8 Relay Module, RS485	AA96D-RM8	AA96D-RM8	\$1,375.00
301AP Annunciator Panel for 301C Controller	301-AP	301-AP	\$707.00
Interface module 4-20 to RS485 with phoenix connector	420MDBS-96D	M-511352*	\$294.00
Interface module 4-20 to RS485 with screw connector	420MDBS-96D-SC	M-511353*	\$305.00
Interface module 4-20 to RS485 with phoenix connector (for use with a PLC)	420MDBS-96D-IM	M-510457*	\$231.00
Interface module 4-20 to RS485 with screw connector (for use with a PLC)	420MDBS-96D-IM-SC	M-700010*	\$238.00

*Note: MDBS modules require factory-set configuration parameters. Please specify at time of ordering. Use of this module inside a sensor will invalidate any certifications.

When ordering these items, the following must be specified per unit: Customer name, Model of detector installed in, range of detection, target chemical, modbus address, alarm 1 setpoint, alarm 2 setpoint, warning/fault setpoint (mA)

Accessories



The SpectraAlert Advance series of notification is designed to simplify installations, with features such as plug in design, 11 field selectable candela settings, and 4 color lens options.

Horn & Strobes	Model Number	Order Number	Price (USD)
DC strobe and horn (P4W-P, clear lens)	FHS-240	P4W-P	\$132.00
2-wire horn strobe, standard candela, white, wall, 12 or 24 Vdc, clear lens	P2W-P	P2W-P	\$123.00
2-wire horn strobe, high candela, white, wall, 12 or 24 Vdc, clear lens	P2WH-P	P2WH-P	\$138.00
2-wire outdoor horn strobe, standard candela, white, wall, 12 or 24 Vdc, clear lens	P2WK-P	P2WK-P	\$175.00
2-wire outdoor horn strobe, high candela, white, wall, 12 or 24 Vdc, clear lens	P2WHK-P	P2WHK-P	\$175.00
2-wire horn strobe, standard candela, white, ceiling, 12 or 24 Vdc, clear lens	PC2W-P	PC2W-P	\$123.00
2-wire horn strobe, high candela, white, ceiling, 12 or 24 Vdc, clear lens	PC2WH-P	PC2WH-P	\$138.00
Strobe, standard candela, white, wall mount	SW-P	SW-P	\$92.00
Strobe, high candela, white, wall mount	SWH-P	SWH-P	\$102.00
Outdoor strobe, standard candela, white, wall mount	SWK-P	SWK-P	\$132.00
Outdoor strobe, high candela, white, wall mount	SWHK-P	SWHK-P	\$132.00
120 Vac to 24 Vdc adapter for System Sensor horn and strobe units <i>NOTE: For 2 wire "PSW" types only</i>	MP120K	MP120K	\$53.00
Wall mount lens attachment, blue	LENS-B	LENS-B	\$21.00
Wall mount lens attachment, red	LENS-R	LENS-R	\$21.00
Wall mount lens attachment, amber	LENS-A	LENS-A	\$21.00
Wall mount lens attachment, green	LENS-G	LENS-G	\$21.00



The Dual Relay Module (DRM) is a single channel 4-20mA analog input feed-thru module that provides a dual stage alarm with isolated relay outputs. It utilizes two relay outputs used to activate local annunciators, warning strobes, PLC inputs, and other output-driven applications. The DRM also allows you to wire up to three modules in series for added relays and alarm trip level flexibility.

Refrigeration Accessories	Order Number	Price (USD)
24 V _{DC} -6.5A power supply	M-600268	\$265.00
Relay plug, terminates 4/20 signal at sensor providing relay output. 3A @ 24 V _{DC} rating	M-600008	\$306.00
GM-JR-PS GM-JR power supply, 24 V _{DC} , 1A	M-600031	\$125.00
Power supply, 24 V _{DC} , 6.5 A	M-600400	\$345.00
Liquid crystal display for use with EC-FX and EC-F9	M-510150	\$125.00
DRM, dual relay module	M-511300	\$195.00
UPS750VA 120V APC Smart-UPS 750 VA	M-507960	\$1,280.00
UPS1000VA 120V APC Smart-UPS 1000 VA	M-508370	\$1,800.00
UPSAPCBP, battery unit for APC Smart-UPS	SMX48RMBP2U	\$1,508.00

Calibration Kits and Accessories

Regulator Guide for Industrial Products

EC-FX NH3	0.3 LPM	*New calibration procedure
EC-F9 NH3	0.3 LPM	*New calibration procedure
EC-F3	O ₂ sensor 0.75 - 1.0 LPM	
IR-F9	0.75 - 1.0 LPM	

*For information on the new calibration procedure please contact us at HA_Manning@Honeywell.com

EC-FX Calibration Equipment	Order Number	Price (USD)
EC-FX CALIBRATION ADAPTER	EC-FX-CA	\$55.00
EC-FX CAL KIT 17/34L .300LPM REG	EC-FX-CK	\$240.00
EC-FX CAL KIT 29L .300LPM REG	EC-FX-CK1	\$240.00
EC-FX CAL KIT 58/103L .300LPM REG	EC-FX-CK2	\$260.00
REGULATOR .300LPM 17/34L	EC-FX-REG1	\$151.00
REGULATOR .300LPM 29/58/103L	EC-FX-REG2	\$151.00

Calibration Kits	Order Number	Price (USD)
Calibration Kit, with # 418 valve, fittings, tubing, and instructions (no gas cylinders)	11252-L9	\$240.00
Calibration Kit, with # 518 valve, fittings, tubing, and instructions (no gas cylinders) for use with 29 L cylinders, small carry case, 1 lpm flowrate, for IRF9 and ECF9	11253-L9	\$240.00
Calibration Kit, with # 518 valve, fittings, tubing, and instructions (no gas cylinders) for use with 58/103 L cylinders, large carry case, 1 lpm flowrate, for IRF9 and ECF9	11337-L9	\$240.00
CK-A calibration adaptor for ECF9 only	10244	\$51.00
CK-R-1LPM-518 regulator 1.0 LPM #518 (for 29/58/103 L cylinders) for ECF9 and IRF9	10597-L9	\$151.00
CK-R-1LPM-418 regulator 1.0 LPM #418 (for 17/34 L cylinders) for ECF9 and IRF9	10687-L9	\$151.00

103 Liter Gas Cylinders	Order Number	Price (USD)
Cylinder of 1,000 ppm R507, balance air	10704	\$310.00
Cylinder of 3,000 ppm R507, balance air	11261	\$310.00
Cylinder of nitrogen (N ₂)	10237	\$179.00
Cylinder of 500 ppm R507, balance air	11389-L9	\$310.00
Cylinder of 500 ppm HFO1234YF, balance N ₂ , 103 L	GFV543	\$183.00
Cylinder of 1000 ppm HFO1234YF, balance N ₂ , 103 L	GFV544	\$183.00
Cylinder of 3000 ppm HFO1234YF, balance N ₂ , 103 L	GFV545	\$183.00

58 Liter Gas Cylinders	Order Number	Price (USD)
Cylinder of 5 ppm chlorine (Cl ₂), balance N ₂	10711-L9	\$435.00
Cylinder of 10 ppm chlorine (Cl ₂), balance N ₂	11355-L9	\$435.00
Cylinder of 25 ppm hydrogen sulfide (H ₂ S), balance N ₂	10594	\$275.00
Cylinder of 10 ppm nitric oxide (NO), balance N ₂	10975	\$375.00
Cylinder of 10 ppm sulfur dioxide (SO ₂), balance N ₂	10232	\$275.00
Cylinder of 10 ppm nitrogen dioxide (NO ₂), balance N ₂	10233-L9	\$415.00

Calibration Kits and Accessories

29 Liter Gas Cylinders	Order Number	Price (USD)
Cylinder of 50 ppm ammonia (NH ₃), balance air	10566-L9	\$205.00
Cylinder of 100 ppm ammonia (NH ₃), balance air	10518-L9	\$205.00
Cylinder of 250 ppm ammonia (NH ₃), balance air	10517-L9	\$205.00
Cylinder of 300 ppm ammonia (NH ₃), balance air	11224-L9	\$205.00
Cylinder of 1,000 ppm ammonia (NH ₃), balance air	10559-L9	\$205.00
Cylinder of 1% ammonia (NH ₃), balance air	10528-L9	\$205.00
Cylinder of 2% ammonia (NH ₃), balance air	10520-L9	\$205.00

17 Liter Gas Cylinders	Order Number	Price (USD)
Cylinder or 1000 ppm carbon dioxide (CO ₂), balance N ₂	11193	\$100.00
Cylinder of 1% carbon dioxide (CO ₂), balance N ₂	10560-L9	\$100.00
Cylinder of 3% carbon dioxide (CO ₂), balance N ₂	11365-L9	\$100.00
Cylinder of 5% carbon dioxide (CO ₂), balance N ₂	10561-L9	\$100.00
Cylinder of 15% oxygen (O ₂), balance N ₂	10558-L9	\$100.00
Cylinder of 20.9% oxygen (O ₂), balance N ₂	10562-L9	\$100.00
Cylinder of 200 ppm carbon monoxide (CO), balance air	10661-L9	\$100.00
Cylinder of 2,000 ppm hydrogen (H ₂), balance air	10236-L9	\$100.00
Cylinder of 500 ppm hydrogen (H ₂), balance air	10235	\$100.00
Cylinder of 500 ppm, R123, balance N ₂	11198-L9	\$100.00
Cylinder of 1,000 ppm R134a, balance air	11413-L9	\$100.00
Cylinder of 3,000 ppm R134a, balance air	11213-L9	\$100.00
Cylinder of 500 ppm R22, balance air	11083-L9	\$100.00
Cylinder of 1,000 ppm R22, balance air	10563	\$100.00
Cylinder of 3,000 ppm R22, balance air	10564	\$100.00
Cylinder of 1,000 ppm R404a, balance air	10976-L9	\$100.00
Cylinder of 3,000 ppm R404a, balance air	10928-L9	\$100.00
Cylinder of zero air	10557-L9	\$100.00
Cylinder of 500 ppm R422, balance air	GFV453	\$100.00
Cylinder of 1000 ppm R422, balance air	GFV454	\$100.00
Cylinder of 3000 ppm R422, balance air	GFV455	\$100.00
Cylinder of 1000 ppm R410a, balance air	GFV456	\$100.00
Cylinder of 3000 ppm R410a, balance air	GFV457	\$100.00
Cylinder of 500 ppm R407a, balance air	GFV458	\$100.00
Cylinder of 1000 ppm R407a, balance air	GFV459	\$100.00
Cylinder of 3000 ppm R407a, balance air	GFV460	\$100.00

Honeywell Analytics Service

Honeywell Analytics' global standing for portable, fixed and low level toxic gas detection is backed up with a dedicated team of professionals that takes service and support to a whole new level.

It's your choice...

Whatever industry you're in, we have the levels of support that are right for your business.

It's your business. It's your industry.

And no matter whether you're managing personnel for confined space entry, or securing your plant against gas risks, the process has to keep moving. The alternative is downtime, or even total shutdown, and then the risks to your business are far greater.

Honeywell provides service levels that make it easy to choose the right kind of support to keep your plant and people safe; to keep your business up and running - because that's our job!

Choose from:

Commissioning

- Configuration and commissioning
- Functional tests
- Start-up
- Staff training
- Bump testing

Contract Maintenance

Service and Repair

- On-site/workshop repair and calibration
- Modification and conversion

Calibration and Surveys

- Instrument calibration equipment certified to national/regional standards
- Site surveys
- Stock surveys

Service Pricing

Price (USD)

Workshop and field service hourly	\$140.00
Field service daily	\$1,120.00
Premium field service hourly (2nd/3rd shift or weekend)	\$210.00
Premium field service daily (2nd/3rd shift or weekend)	\$1,680.00



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