

Caroline **FX**

Reliable and cost-effective continuous monitoring for methanol, refrigerants and more

Caroline FX integrates the latest technology in uncooled infrared detectors, offering consistent and costeffective performance for methane and SO2 detection and leak rate quantification. It is the most complete system for continuous gas leak monitoring for environments involving hydrocarbons like methanol and ethylene, refrigerants like sulfur hexafluoride, ammonia and more while also providing flame detection, intelligent thermography, and surveillance to further boost security.





Gas Detection



Gas Ouantification



Surveillance



Intelligent Thermography



Flame Detection



RedLook Camera Al Analytics



Integration
Rest API, Cloud Services,IoT



ATEX Zone I Housing Available



Instant & Accurate Alarms



Automatic Reporting



REDLOOK

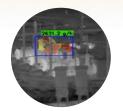
Caroline FX is a part of our Al-powered RedLook solution for exhaustive continuous monitoring and real-time alerting. RedLook is highly versatile, allowing operators to configure several Regions of Interest (RoI) within the area to be autonomously monitored. RedLook can assign a functionality to each configured RoI, granting a complete and safe surveillance of the installation.



Technology Data Sheet



Instant gas visualization
Simply set up a ROI then
instantaneously detect, visualize
and quantify gas leaks.



Al-powered flow rate quantification
Accurate gas flow rate quantification
based on our established neural
networks and scenario based training



Hot spot saturation
Simultaneously monitor operating temperatures of components



Temperature indicator
Shows the precise temperature
value of elements shown in the
center of the screen.

Cresifications	
Specifications	
FPA	Uncooled 640 x 480 px
Pixel Pitch	17 μm
NETD	<22mK @ +30°C
Spectral Region	8 to 14
Lenses	50 mm 35 mm 20 mm
Zoom	Digital Zoom
Accuracy	± 0°C (from 0°C to 60°C Scene Temp.)
Data Protocol	GigE 9 Hz / 25 Hz
Power	<3 watts; PoE (power over ethernet) 9v-48v
Weight	2,8 kg
Size	97 x 110 x 330 mm
Operating Temp. Range	-20°C to +50°C
Storage Temp. Range	-40°C to +71°C
Certifications	IP66 (EN 60529) EMC (EN 61326:2013) II 3G Ex ec IIC T4 Gc -20°C ≤ Tamb ≤ +50°C EN 60079-0:2012 + A11:2013; EN 60079-7:2015

Caroline FX Gases detected	
1,3 Butadiene	Propylene
Acrolein	R11
Acrylic Acid	R12
Ammonia	R123
Ethanol	R125
Ethyl Hexyl acrylate	R13
Ethylene	R134A
Ethylene Glycol	R13B1
Ethylene Oxide	R417A
Isoprene	R422A
Methanol	R508A
Nitrogen Trifluoride	Sulfur Hexafluoride
Phenol	Vinyl Chloride

Features under demand		
Scanning	Pan & Tilt	
Temperature Range	Customized	
Relay	Hot relay contact on site	
Auxiliar Power Supply	12 VDC (instead of PoE)	
Communication	Wireless Supported	
SMART Model	Contact us for further details	
Atex Housing Zone 1	Contact us for further details	

Specifications are subject to change.

For the most up-to-date specifications, please email us: contact@sensia-solutions.com



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