

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 cost-effective 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
Quantification



Surveillance



Intelligent
Thermography



Flame
Detection



RedLook Camera
AI 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 AI-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.



AI-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.

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	

Specifications are subject to change.

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

HEADQUARTERS

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QUALITY POLICIES

