

Caroline FXY

24/7 monitoring for
broadband gases detection



Caroline fixed series integrates the latest technology in uncooled infrared detectors, offering consistent and error-free performance. It is the most complete system for continuous monitoring of environments involving SF6, Methane, Methanol, Sulphur Dioxide, VOC's and/or refrigerant gases leaks.



**Redlook
Camera**
AI Analytics



Integration
Rest API, Cloud
Services, IoT



**ATEX
Certification**
II 3G Ex ec
IIC T4 Gc



**Real Time
Alarms**
Modbus, OPC,
Hot Relay

REDLOOK™ technology

Redlook is fully implemented in SENSIA's line of fixed systems for 24/7 monitoring. This comprehensive monitoring system presents a series of innovative capabilities assembled under a single control software:



Gas Detection
Highest detection
probability and lowest
false alarm rates



Flame Detection
The most reliable tool
for fire anticipation and
early warning



Gas Quantification
Determination of the
volumetric/mass flow
rate of the detected gas



Spill Detection
Non-volatile
hydrocarbons and spills
detection



Surveillance
Thermal image
processing for
security and safety



Int. Thermography
Automatic high
accuracy
thermography control
system



Tank Leveling
Automated tank
level monitoring
without opening the
thief hatch



Redlook enables exhaustive monitoring and real-time alerting. It is highly versatile, allowing to configure several Regions of Interest (RoI) within the area to be monitored.

Redlook can assign a functionality to each configured RoI, granting a total and safe surveillance of the installation.

Specifications	
FPA	Uncooled 640 x 480 px
Pixel Pitch	17 µm
NETD	<22mK @ +30°C
Spectral Region	7 to 14
Lenses	50 mm 35 mm 20 mm
Zoom	Digital Zoom
Accuracy	± 1°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	-10°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

Gases detected	
1,3-Butadiene	Phenol
Acetic Acid	Propylene
Acrolein	R11
Acrylic Acid	R12
Ammonia	R123
Ethanol	R125
Ethyl Hexyl Acrylate	R13
Ethylene	R134A
Ethylene Glycol	R13B1
Ethylene Oxide	R417A
Isoprene	R422A
Methane	R508A
Methanol	Sulfur Dioxide
Nitrogen trifluoride	Sulfur Hexafluoride
Nitrous Oxide	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

*Specifications are subject to change.
For the most up-to-date specifications, please contact to: contact@sensia-solutions.com*

HEADQUARTERS

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QUALITY POLICIES

