

Caroline FY

Cost-effective and reliable continuous monitoring for methane and SO₂



Caroline FY 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 monitoring of industrial environments while also providing flame detection, intelligent thermography, and surveillance to further boost plant safety and security.



Gas Detection



Gas Quantification



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

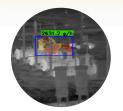
Caroline FY is a part of our Al-powered RedLook solution for exhaustive continuous monitoring and real-time alerting. RedLook is highly versatile, allowing operators to configure several Regions of Interest (Rol) within the area to be autonomously monitored. RedLook can assign a functionality to each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

Caroline FY Specifications		
FPA	Uncooled 640 x 480 px	
Pixel Pitch	17 μm	
NETD	<22mK @ +30°C	
Spectral Region	7 to 9,5	
Lenses	20 mm 35 mm 50 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	

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

Gases detected	
Acetic Acid	C ₂ H ₄ O ₂
Acrolein	C ₃ H ₄ O
Acrylic Acid	C ₅ H ₈ O ₂
Ethyl Hexyl Acrylate	C ₁₁ H ₂₀ O ₂
Methane	CH ₄
Nitrous Oxide	N ₂ O
Phenol	C _e H _e O
R12	CCI ₂ F ₂
R123	C ₂ HCl ₂ F ₃
R125	CHF ₅
R13	CCIF ₃
R134A	C ₂ H ₂ F ₄
R13B1	CBrF ₃
R417A	Mixture of C ₂ HF ₅ , C ₂ H ₂ F ₄ , C ₄ H ₁₀
R422A	Mixture of C ₂ HF ₅ , C ₂ H ₂ F ₄ , C ₄ H ₁₀
R508A	C ₂ F ₆
Sulfur Dioxide	SO ₂
Propylene	C ₃ H ₆
Vinyl Chloride	C ₂ H ₃ CI

Specifications are subject to change.

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

QUALITY POLICIES







