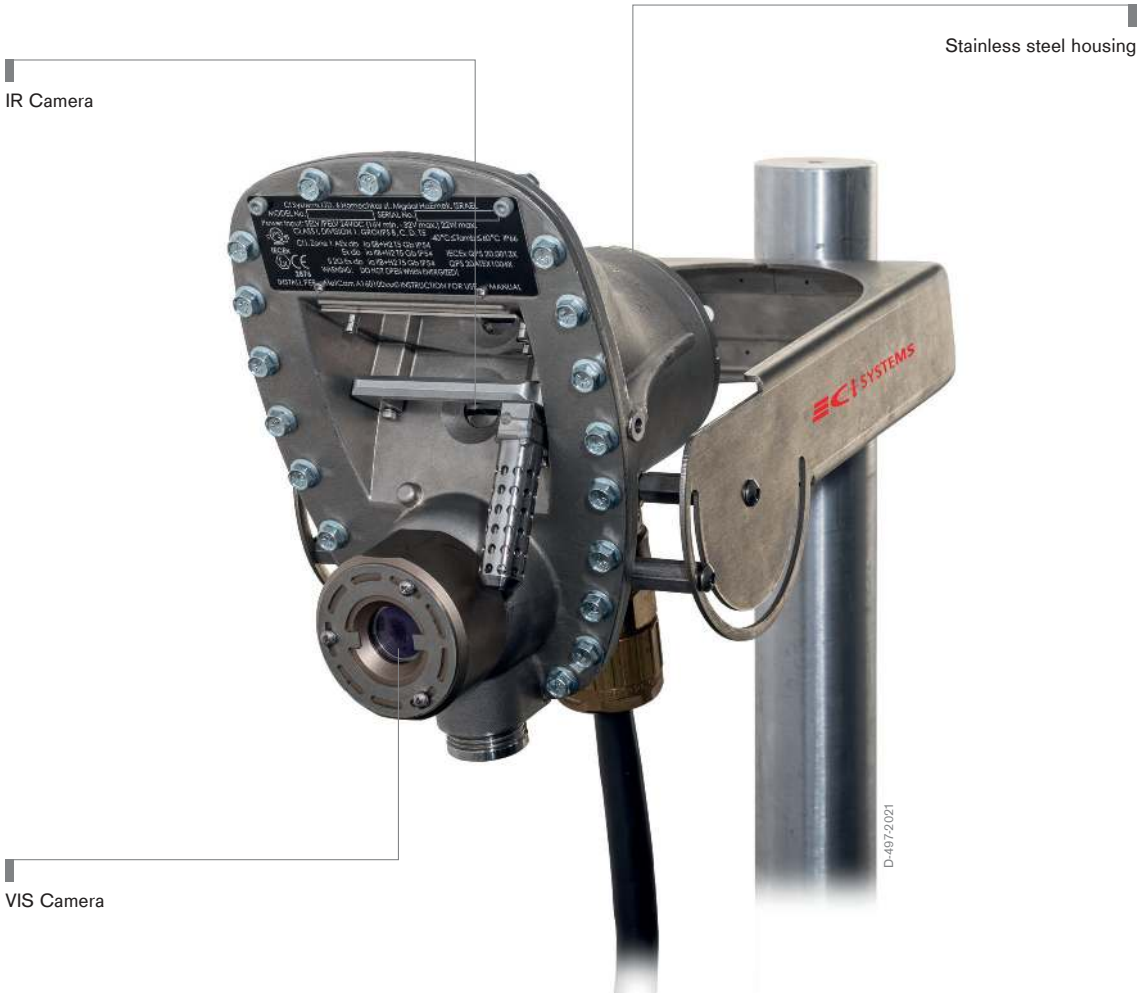
MetCam Gas Camera
Optical Area Monitoring

The MetCam gas camera continuously monitors large areas for possible methane leaks. It makes the source and the intensity of the leaks visible. The camera can even detect small emissions.



Dräger. Technology for Life®

Benefits

Visualise gas leaks

In the oil and gas industry, there are often spacious or labyrinthine plant areas that are difficult to reach or whose gas pipelines have many connections. Here, typical gas detection systems reach their limits. However, even under these conditions, an optical gas detection camera makes gas leaks visible in terms of their source and intensity. An ideal complement to your gas detection system for a more accurate and faster assessment of a potential hazard.

Increased safety and efficiency

The MetCam automatically monitors your facility around the clock. Unlike point detectors, the gas source need not be in the immediate proximity of the gas camera. It is sufficient if the source is in the field of view of the camera. The detection is thus independent of wind or similar influences. The MetCam detects gas leaks at an early stage and can warn you against them. This way, you can initiate countermeasures faster. This means more safety for your facility and greater efficiency.

Simple interpretation of the event and multipurpose use

The gas camera visualises the gas cloud as a coloured overlay on the black and white video image and independently quantifies the concentration. As a result, you simply interpret the event from a safe distance, for example, from your control room. You can also use the MetCam to measure emissions or as a surveillance camera with a colour image.

Fewer false alarms, very low maintenance effort

The camera recognises independently if the optics are dirty or covered, and alerts you accordingly. This reduces false alarms and ensures that your system is ready for use. In order to adapt to changing weather conditions, the MetCam regularly performs a self-calibration. A special maintenance or calibration is not necessary and the maintenance effort is low.

Various communication options

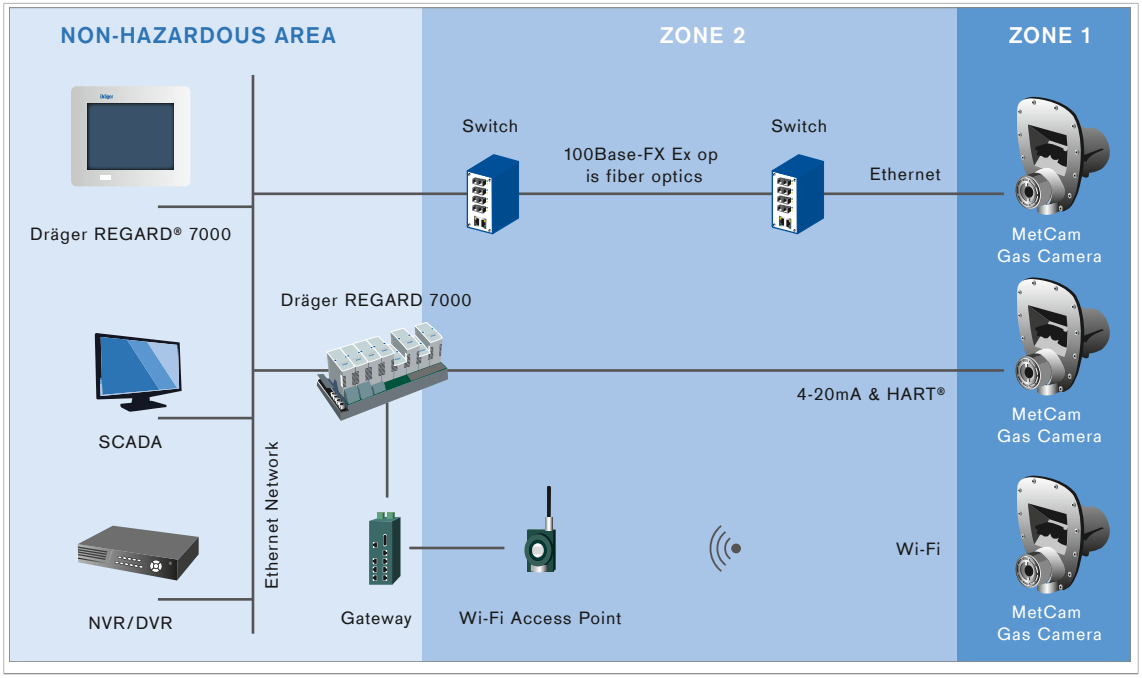
The MetCam offers various communication interfaces and supports corresponding protocols for data and video transmission. The analogue, 4 to 20 mA current interface in conjunction with HART®, can be used to transmit the alarms and the device status. The video transmission takes place via the Ethernet interface using LAN. There are two different operating modes available at the same time. One mode is the transmission of the black-and-white video with a colour overlay of the detected gas cloud in the event of a leak. The second mode is a colour video for area monitoring without showing the gas concentration.

Benefits

Documented safety

All events and measured data are stored automatically, allowing you to understand and evaluate them later. You can also create emission logs with little effort.

Network Infrastructure with MetCam Gas Camera



Installed in the Ex zone, the MetCam communicates via Ethernet, 4-20 mA and HART® or wireless with the control unit in the non-hazardous area.

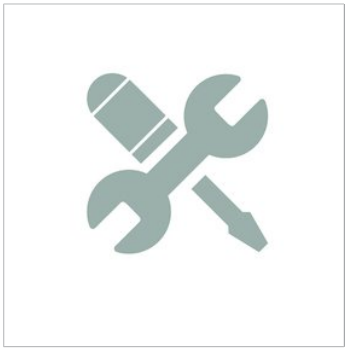
System Components

D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable control system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the backward compatibility with the REGARD®.

Services



D-2331-2016

Product Service

Our product service provides support with different service packages – in our workshops or directly on your premises. Care, maintenance and servicing are crucial for safety and reliability – but careful maintenance and care are a must, even when it comes to commercial considerations. Preventive checks, ongoing care and use of original replacement parts improve the longevity of your investment.

D-2335-2016

Training

The Dräger Academy has shared its solid, practical knowledge for over 40 years. We hold more than 2,400 training courses each year, on a range of over 600 topics, with more than 110 authorised trainers. We equip your staff with practical knowledge and ensure that what they learn can be applied effectively, both day-to-day and, more importantly, whenever critical situations occur. We will be pleased to develop a customised training programme for you.

Related Products

ST-11659-2007

Dräger PIR 7000

The Dräger PIR 7000 is an explosion proof point infrared gas detector for continuous monitoring of flammable gases and vapours. With its stainless steel SS 316L enclosure and drift-free optics this detector is built for the harshest industrial environments, e.g. offshore installations.

D-14983-2010

Dräger Polytron® 8700 IR

The Dräger Polytron® 8700 IR is an advanced explosion proof transmitter for the detection of combustible gases in the lower explosion limit (LEL). It uses a high performance infrared Dräger PIR 7000 sensor, which will quickly detect most common hydrocarbon gases. Besides a 3 wire 4 to 20 mA analogue output with relays, it also offers HART®, Modbus and Fieldbus making it compatible with most control systems.

D-21374-2020

GS01 (wireless)

The GS01 is a wireless infrared gas transmitter for continuous monitoring of flammable hydrocarbon gases and vapours in the oil and gas industry. The intrinsically safe and SIL-rated transmitter features completely wireless signal transmission and power supply. This makes the GS01 a flexible and cost efficient solution for plant expansions, upgrades, and new greenfield projects.

D-5541-2018

Dräger Polytron® 8900 UGLD

The Dräger Polytron® 8900 UGLD transmitter is an early warning area monitor for detecting high-pressure gas leaks in outdoor industrial process environments. Thanks to an ultrasonic acoustic sensor, it responds earlier than conventional gas detectors because it registers the sound of leaking gas instead of measuring the concentration of accumulated gas clouds. As gas escapes, leaks are immediately detected in the surrounding area, regardless of the wind direction.

Technical Data

Camera characteristics	
Measuring gas	Methane
Response time	< 10 seconds
Range	10 to 50 m
Field of view	Horizontal 68°; vertical 23°
Lower detection threshold	> 60 g/h
Self-calibration	Every 3 to 5 minutes
	Interval depending on the change in ambient temperature
Communication/Protocol	Giga Ethernet
	Modbus half-duplex
	ONVIF Protocol – Profile „S“
	HART® Protocol
Electrical data	
Output signals	4-20 mA (stepped), HART®
RS 485	RS-485 Modbus compatible interface
LAN	Giga Ethernet
	Optional Wi-Fi
Supply voltage	24 VDC (16–32 VDC)
Power consumption	Max. 22 W
Environmental conditions	
Temperature range	Operation: -25 to +40 °C
	Optional: -40 to +60 °C
Housing	
Material	Stainless steel
Protection class	IP66
Cable gland	1 M25 or 3/4" NPT
Weight	< 4.5 kg
Dimensions	156 × 236 × 183 mm
Approvals	
ATEX/ IECEx	Ex II 2G
	Ex db ia IIB+H2 T5 Gb (MetCam)
	Ex db ia mb IIB+H2 T5 Gb (MetCam Wifi)
	-40 °C ≤ Tamb ≤ 60 °C
US & Canada	Class I, Division 1, Groups B, C, D, T5
	Class I, Zone 1 AEx db ia IIB+H2 T5 Gb
	-40 °C ≤ Tamb ≤ 60 °C

HART® is a registered trademark of the HART® Communication Foundation

Ordering Information

MetCam Camera (M25)	37 03 415
MetCam Camera (3/4 NPT)	37 03 416
MetCam Camera (M25, Temp)	37 03 417
MetCam Camera (3/4NPT, Temp)	37 03 418
MetCam Camera (M25, Temp, Wi-Fi)	37 03 419
MetCam Camera (3/4NPT, Temp, Wi-Fi)	37 03 420
Pan Tilt Mounting Set	37 03 421

Ordering Information

Weather shield	37 03 422
Functional test sheet	37 03 423

Notes

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