



BROCHURE

IoT-Camera-Sensor

Dynamic Ratings

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Flexible, Reliable Data Reporting

Applications

The Dynamic Ratings IoT Camera Sensor dramatically increases the breadth of monitoring by enabling the capture of any visual indications. The IoT Camera Sensor captures asset photos once per day and sends the photos back to the data hub. Gauge levels are then used for asset reporting and critical event alerting. By using the existing mechanical indicators, one can measure the fluid or gas levels with no need to install costly sensors that could introduce the risk of leaks. The image capture is additionally enhanced by advanced image classification tools, like AI and machine learning, to provide further clarification and reliability of the image capture. With the IoT Camera Sensor, the reach of monitoring is easily extended without having to install additional intrusive sensors. The IoT Camera Sensor is used to:

- Capture data for future maintenance planning
- Gather fault-detection data
- Provide alerts and alarms when gauges reach critical levels
- Reduce opex costs associated with site visits for asset inspection, call-outs, and maintenance
- Reduce asset inspection costs by remotely reading gauges daily, instead of monthly or annually
- Provide daily temperature readings through its electronic temperature monitor
- Provide automated, real-time, data-driven, and pre-emptive management of key assets



Integrated Wireless Communications

With secure integrated wireless communications utilizing cellular and LoRaWAN technologies, the Camera Sensor eliminates the need to manage a separate communication back-haul architecture or run expensive communication cabling to the monitored location. This makes the ConnectGrid™ Camera Sensor the fastest and easiest way to expand monitoring into new areas that were otherwise cost prohibited before.

Built for Rapid Non-Intrusive Installation

The Camera Sensor is a battery-operated sensor that requires no field wiring for installation. Most mounting kits are available with magnetic features so that no drilling or cutting is required for installation. The typical installation requires a quick clean of the monitored surface like gauge glass, stick-on magnetic installation of the Camera Sensor, then a quick check on a mobile app or web page to ensure the image is being captured correctly.

Designed for Flexibility

Thanks to the evolving technologies around image recognition and classification, the sensor has been designed to be quickly adapted to new applications. Whether it's a mounting bracket for a new type of visual indicator, or a lighting system to capture switch positions in a dark cabinet, the sensor can be quickly deployed to solve new problems. The more complex conversion of images to meaningful data is performed at the software headend which enables modern processing tools to be used that can convert images into numbers, rates of change and alerts. If there's any question about the veracity of the data, a quick check of the original image allows for human validation.

um:imei:359215104732152	29-07-2020 02:49:46 6 hours ago	21 mm 31%	20°C	65(+0), 88(+0)	47
um:imei:359215105334602	29-07-2020 04:21:56 5 hours ago	21 mm 32%	18°C	54(+0), 100(+0)	47
um:imei:359215104778742	29-07-2020 04:05:15 5 hours ago	21 mm 31%	17°C	80(+0), 85(+0)	50
um:imei:359215105317458	29-07-2020 04:07:59 5 hours ago	21 mm 31%	20°C	53(+0), 86(+0)	50
um:imei:359215105317375	29-07-2020 04:09:16 5 hours ago	21 mm 31%	15°C	69(+0), 94(+0)	50

Flexible conversion of images to data

RESPONSIVE

ASSET HEALTH SOLUTIONS

Ordering Guide

Option	Configuration Code	Description
Base Unit	CAM - X - X	
	CAM	Camera Sensor
Communication Options		
	C	Cellular
	L	LoRaWAN
Application Option		
	O	Oil Level Sightglass Sensor



An ISO 9001, ISO 14001, ISO 27001, ISO 45001 Certified Company.

Americas
+1 262 746-1230
sales.us@dynamicratings.com

Asia Pacific
+61 3 8544-0700
sales.asia@dynamicratings.com

Europe/ Africa
+44 1617 681111
sales.eu@dynamicratings.com

www.dynamicratings.com

Request a quote from your regional office.

