



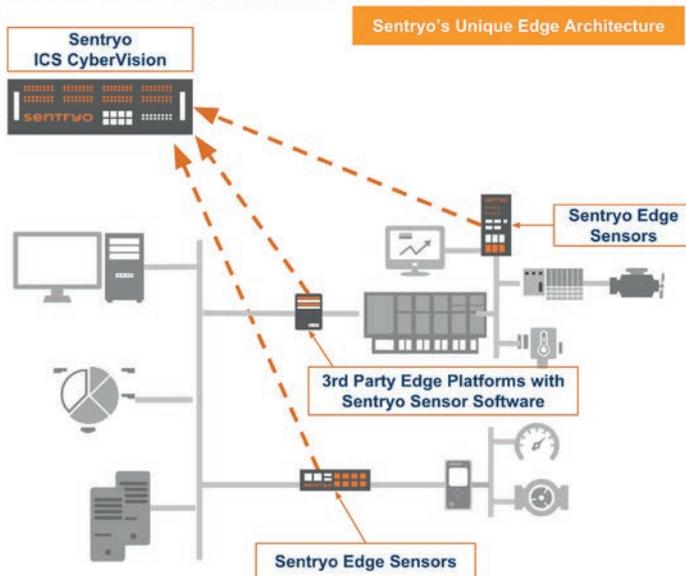
## ICS CyberVision Edge Sensors

Sentryo's ICS CyberVision Edge Sensors listen to your industrial network to extract inventory, communication and process information. They uncover the smallest details of your production infrastructure to automatically give you an up-to-date view of your industrial assets, detect abnormal behaviors and control the security of your OT infrastructure.



# Capturing Meaningful ICS Information

Sentryo's range of Edge sensors are essential components of the ICS CyberVision solution. They constantly watch information flows within your industrial network to send meaningful inventory and security information to the ICS CyberVision Center platform.



## Unique Edge Architecture

Rather than transfer all data from your industrial network to a central analysis platform, Sentryo Edge sensors are designed to process information as close to control systems as possible. This Edge Computing architecture requires very little bandwidth and greatly reduces deployment costs.

## Built Into Your Industrial Network Equipment

Sentryo's Edge sensor software can be installed anywhere: in Sentryo appliances, running in a virtual machine or in existing Cisco, Siemens or Ruggedcom equipment. It adapts to your network architecture and matches your plan to migrate towards industry 4.0 technologies.



## Deep Packet Inspection

Sentryo Edge sensors carry a unique Deep Packet Inspection (DPI) algorithm that can read all the OT and IT protocols on your network. They extract all the relevant inventory, network and process information to give you automatic visibility on your infrastructure, regardless of the automation equipment used.

Some of the OT Vendors Supported

SIEMENS

Schneider Electric

Rockwell Automation

ABB

EMERSON

Honeywell

YOKOGAWA

PHENIX CONTACT



+ And More...

## 100% Passive



Sentryo Edge sensors are completely passive and undetectable. In no case can they communicate with your industrial equipment. They cannot introduce any security flaw or disrupt or interrupt your processes. Sensor7 even have a blocking diode to prohibit any physical interaction with the production network.

## 100% Secure



From operating system to communication with the ICS CyberVision central platform, Sentryo Edge sensors are fully secure. They use a hardened OS designed specifically for critical embedded applications. Processes are siloed and an encryption system prevents anyone from retrieving or modifying the data they analyze.

## Zero Configuration



Sentryo Edge sensors are very easy to deploy. All you have to do is connect them to the network so that they start collecting information and sending it to the ICS CyberVision platform. No configuration or maintenance is needed. Everything is automatically done via Sentryo's ICS CyberVision central platform.

## Offline Mode



If you just want a site inventory or to analyze a part of your infrastructure, use the Sentryo sensor in offline mode. Install a Sentryo sensor to capture the streams and unplug it. You will transfer the data later to the central platform for analysis using your computer. No need to configure your network or VPNs. Simple, quick and effective.



## KEY FEATURES

Automatically capture meaningful information from OT & IT network flows

Edge Computing: Greatly reduces costs

Secure by design: 100% reliable

Works on existing hardware: Unmatched flexibility

Non-intrusive monitoring: Zero risk to production networks

Data-diode: No-intrusion possible

Centralized management



# Sentryo's High-Performance Edge Sensors

## HARDWARE SENSORS: TECHNICAL SPECIFICATIONS

	SENSOR3	SENSOR5	SENSOR7	SENSOR10
<b>Usage</b>	Edge sensor designed for wide temperature ICS	Edge sensor with SPF & copper LAN interfaces, designed for wide temperature ICS and power grid applications	Edge sensor with data-diode security built-in, designed for harsh OT environment	I/O rich Edge sensor with SPF & copper LAN interfaces to capture OT information in the datacenter
<b>Form factor</b>	DIN Rail or Wall mount			1U 19" Rackmount
<b>Network ports for packet capture</b>	4x10/100/1000 RJ-45	4x10/100/1000 RJ-45 2xGbE SPF (optical)	2x10/100/1000 RJ-45 4xGbE RJ-45 with data-diode	6x10/100/1000 RJ-45 2xGbE SPF (optical)
<b>Network ports for management</b>	1x10/100/1000 RJ-45		2x10/100/1000 RJ-45	1x10/100/1000 RJ-45
<b>LAN bypass</b>	YES, 1 pair	YES, Gen3, 1 pair	YES, Gen3, 2 pairs	
<b>Offline packet capture interface</b>	2 x USB Type A			
<b>Magnetic isolation protection</b>	1.5 KV Built-in			na
<b>Power input</b>	12-36 VDC	12-48 VDC	12-36 VDC	90~264 VAC
<b>Redundant power supply</b>	YES			NO
<b>Power type</b>	Phoenix contact 6-pin connector with lock		Phoenix contact 4-pin connector with lock	220W ATX
<b>Max power consumption</b>	15 W	15 W	50 W	65 W
<b>System cooling</b>	Fanless and dust-resistant design			2 x Smart Fans
<b>Operating temperature</b>	-40°C to 75°C		-20°C to 55°C	0°C to 40°C
<b>Operating humidity</b>	5% to 95% (non-condensing)		5% to 90% (non-condensing)	
<b>Dimensions (W x H x D)</b>	65 x 146 x 127 mm (2.56" x 5.74" x 5")	53.5 x 186 x 160 mm (2.1" x 7.32" x 6.29")	230 x 65 x 170 mm (9.06" x 2.56" x 6.69")	438 x 44 x 321 mm (17.24" x 1.73" x 12.64")
<b>Weight</b>	1 kg (2.2 lbs)	1.6 kg (3.6 lbs)	2 kg (4.4 lbs)	7.5 kg (16.5 lbs)
<b>Certifications</b>	CE, FCC, RoHS	RoHS, EC-61850-3, IEEE1613, CE, FCC	CE, FCC, RoHS	

## SOFTWARE SENSORS: TECHNICAL SPECIFICATIONS

**Hypervisor:** Hyper-V 2012+, KVM 1.2+, VMware ESX 6.x+

**Monitoring Ports:** Unlimited

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