OPC UA Gateway for CO_2 incubators

Accessory to enable Open Platform Communication Unified Architecture (OPC UA) integration of Heracell VIOS 160i/250i and Forma Steri-Cycle i160/i250 CO_2 Incubators

Thermo Scientific™ OPC™ UA Gateway for CO_2 incubators (VIOS and Steri-Cycle models*) utilizes the OPC™ UA interoperability standard to enable a secure and reliable exchange of real-time and historical data between Distributed Control Systems (DCS), such as the Emerson™ DeltaV™ system, and other systems, applications, and enterprise users.

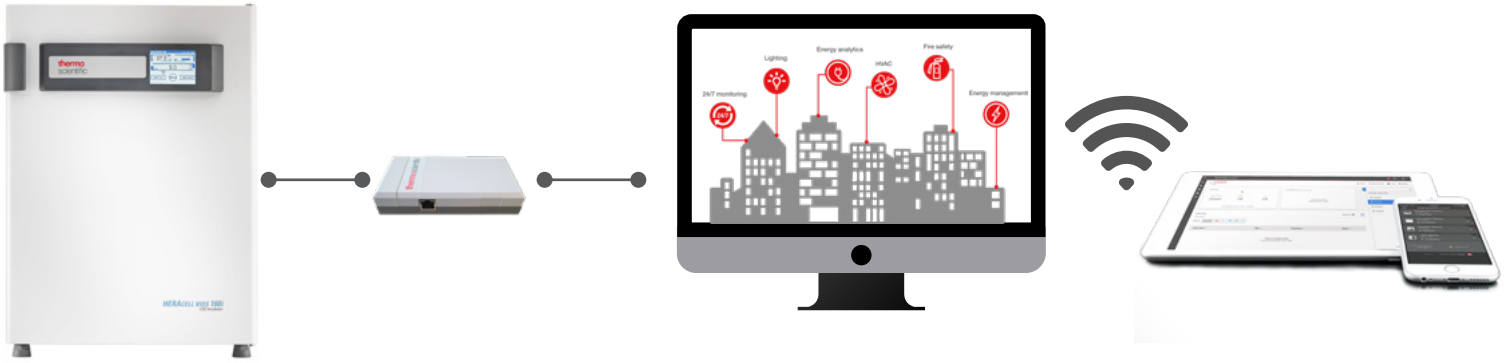
What is OPC UA?

Open Platform Communication Unified Architecture (OPC UA) is a platform-independent, open industry standard for connectivity that enables machine-to-machine communication and information integration between various devices, software systems, and applications.

Reasons to connect

- 21 CFR Part 11–compliance and GMP needs
- Support audit requirements with enhanced data traceability
- Real-time run monitoring for sample protection, workflow efficiencies, asset and cost optimization, and regulatory compliance.

How it works



1. Connect the OPC UA gateway to your CO_2 incubator.
2. Connect the OPC UA gateway to your network with ethernet and integrate into your Distributed Control System.
3. Depending on DCS used: Benefit from the full potential of incorporating lab equipment into your DCS, including paperless record keeping, remote monitoring, cloud analytics and more.

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* Compatible with the following CO_2 incubators:

- Thermo Scientific™ Heracell™ VIOS™ 160i and 250i CO_2 Incubators
- Thermo Scientific™ Forma™ Steri-Cycle™ i160 and i250 CO_2 Incubators

Benefits of OPC UA

Platform independent—can be crucial for any lab, due to the wide array of hardware platforms and operating systems being used. OPC UA enables communications across platforms and systems, and functions on any of the following and more:

- Hardware platforms: traditional PC hardware, cloud-based servers, PLCs, microcontrollers
- Operating systems: Microsoft™ Windows™, Apple® OS X®, Android™, or any distribution of Linux®

Secure communications—allows for secure communications between the user's DCS and applications by supporting multiple levels of security that include encryption, authentication, and auditing.

Robust connectivity—designed to be more robust than existing interface technologies by using a client–server architecture that provides mechanisms for quickly detecting and recovering from communication failures associated with transfers, without having to wait for long timeouts.

Unified Architecture—OPC UA provides a single interface for accessing real-time, historical, and alarm and event data.

Incorporating OPC UA protocol can help your lab:

- Securely share data
- Track instruments performance
- Save on operational costs
- Be audit-ready
- Manage the entire workflow
- Minimize risks in your research

With magnetic stripes on the back of the gateway, it can be easily attached to the back of the incubator.

Description	Details	Compatible incubator models	Country	Cat. No.
Thermo Scientific gateway accessory for OPC UA enablement	Includes gateway device, USB 2.0 cable USB-A to USB-B connector, and 100-240V power supply	Heracell VIOS 160i/250i Forma Steri-Cycle i160/ i250	All countries except for China	**50168119**
			China only	**50168031**

Learn more at **thermofisher.com/co2**

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