

Omega Link USB Smart Interface

- USB to Smart Probe Interface
- USB 2.0 compliant
- 2-meter length cable
- Omega Link, SYNC, and Omega Enterprise Gateway supported
- Modbus RTU, Modbus ASCII compatible
- Simple command line interface

CE



USB to Smart Probe Integration

The Omega Link IF-001 Smart Interface cable provides an easy way to configure and monitor Omega Smart Probes. The USB 2.0 compliant device appears as a serial port and is compatible with Windows 10 OS or higher.

The IF-001 can connect directly to an Omega Link Gateway to integrate Smart Probes into an Omega Link ecosystem. It also provides a Modbus RTU or Modbus ASCII interface to the entire smart sensor register set.

An integrated command line interface allows for quick smart sensor register configuration and monitoring using standard terminal emulators.

The 8-pin M12 connector provides 3.3 V_{DC} power for external Smart Sensor probe with an integrated power monitor to protect against short circuits.

Specifications

Environmental

Environmental Rating:

NEMA 6 IP67 when mated (M12 end only)

Operating Temperature:

-20 to 80°C (-4 to 176°F), non-condensing

Vibration: 10 Gs at 10 Hz to 500 Hz (M12 end only)

General

Power: USB Powered. Supplies up to 100 mA to sensor

Length: 2-meter cable

Agency Approvals: CE, WEEE

Setup: Supports USB PnP setup and SYNC configuration software

Interface: USB 2.0

Agency Approvals: CE

Compatibility: Windows 10 OS or higher. Compatible with OEG, SYNC configuration software, Omega Link Cloud, and Modbus Networks

Software Configurable Smart Probe

The SP-006 is software configurable by connecting it to a PC with an IF-001 or other Smart Interface



Omega Link USB Smart Interface Model

Model Number	Description
IF-001	Omega Link Smart Probe USB Interface (2-meter length cable)

Omega Link Smart Probes

Compatible Omega Link Smart Probes are integrated with an advanced suite of IIoT Smart Core features. These features enable plug and play connectivity, alarms and notifications, data assurance, data logging, and storage.

Model Number	Description
SP-001 Series	Smart Probe IR, 6:1 field of view, with discrete I/O
SP-002 Series	Smart Probe IR, 10:1 field of view with discrete I/O
SP-003 Series	Temperature, Humidity, Barometric Pressure, Dewpoint, Humidex, and Heat Index Smart Probe with discrete I/O - Tube Housing
SP-004 Series	Temperature, Humidity, Dewpoint, Humidex, and Heat Index with discrete I/O - Tube housing or Bulkhead housing, 5" variant also available
SP-005 Series	Temperature and RTD Smart Probe with discrete I/O
SP-006 Series	Pressure Monitoring and Control Smart Probe with discrete I/O
SP-010 Series	Load Cell Smart Probe with discrete I/O
SP-013 Series	Digital Interface Smart Probe with discrete I/O
SP-014 Series	Process Monitoring Smart Probe with discrete I/O
SP-016 Series	Heat Flux Smart Probe with discrete I/O

Compatible Omega Link Gateways

Model Number	Description
GW-001-3-NA	Wireless IIoT Gateway Pro, Ethernet connectivity, power over Ethernet, connects up to 100 Omega Link Smart Sensors, Modbus RTU RS232/RS485 and Modbus TCP, 2x USB ports- 915 MHz
GW-001-3-EU	Wireless IIoT Gateway Pro, Ethernet connectivity, power over Ethernet, connects up to 100 Omega Link Smart Sensors, Modbus RTU RS232/RS485 and Modbus TCP, 2x USB ports- 868 MHz
GW-002-1-LTE	Wireless LTE IIoT Gateway Pro connects up to 40 Omega Link Smart Sensors, Modbus RTU RS232/RS485 and Modbus TCP, 1x RJ45 port, 1x USB port - 915 MHz

Your Data at a Glance with the Omega Link Cloud

The Omega Link Cloud consolidates and brings your data to you when you need it, wherever you are. The intuitive cloud interface allows you to monitor and store your data, set alarms and alerts, and provides insights on device activity. Visit the OMEGA website for more details.

