IF-001
USB Smart Interface

layer by OMEGA

- **USB to Smart Probe Interface**
- **USB 2.0 Compliant**
- **SYNC and Omega Enterprise Gateway support**
- **Modbus RTU, Modbus ASCII compatible**
- **Simple command line interface**

The Omega 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, iOS, and Linux.

The IF-001 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 Vdc 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
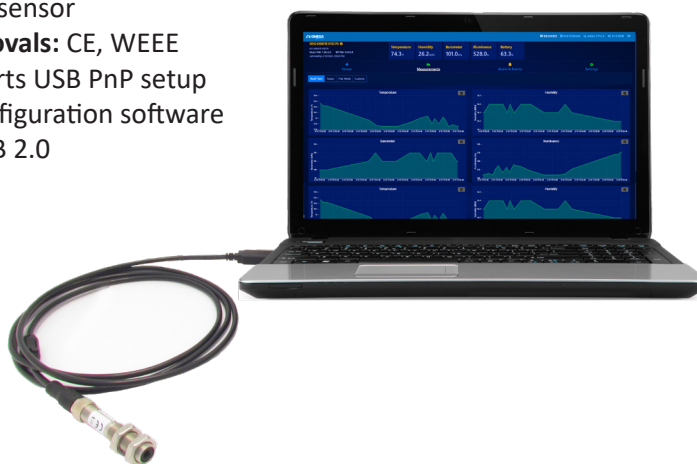**Vibration:** 10 Gs at 10 Hz to 500 Hz (M12 end only)

General
Power: USB Powered. Supplies up to 100 mA to sensor
Agency Approvals: CE, WEEE
Setup: Supports USB PnP setup and SYNC configuration software
Interface: USB 2.0

Modbus Smart Interface

Model Number	Description
IF-001	Smart Probe USB Interface

Layer N Smart Probes

Compatible Layer N 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-001-0	Smart Probe IR, 6:1 field of view
SP-001-1	Smart Probe IR, 6:1 field of view, with discrete I/O
SP-002-0	Smart Probe IR, 10:1 field of view
SP-002-1	Smart Probe IR, 10:1 field of view with discrete I/O
SP-003-1	THB Smart Probe with I/O Tube Housing
SP-004-1	TH Smart Probe with I/O Tube Housing
SP-004-4	TH Smart Probe with I/O Bulkhead Housing
SP-005-1	Temperature and RTD Smart Probe with discrete I/O
SP-010-1	Load Cell Smart Probe with discrete I/O
SP-013-1	Digital Interface Smart Probe with discrete I/O
SP-014-1	Process Monitoring Smart Probe with discrete I/O
SP-016-1	Heat Flux Smart Probe with discrete I/O