# IF-001

## USB Smart Interface



C E

- **USB to Smart Sensor Interface**
- **USB 2.0 Compliant**
- **Sync by Omega 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.

## Smart Probe Interface

## 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



| To Order | |
|---|---|
| **P/N** | **Description** |
| IF-001-0 | Smart Probe USB Interface |

## Compatible Smart Probes

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

| P/N | FOV | Discrete I/O Pins | Description |
|---|---|---|---|
| SP-001-0 | 6:1 | None | Smart Probe IR, 6:1 field of view |
| SP-001-1 | 6:1 | 2 | Smart Probe IR, 6:1 field of view, with discrete I/O |
| SP-002-0 | 10:1 | None | Smart Probe IR, 10:1 field of view |
| SP-002-1 | 10:1 | 2 | Smart Probe IR, 10:1 field of view, with discrete I/O |