

IF-006 (-NA) Series

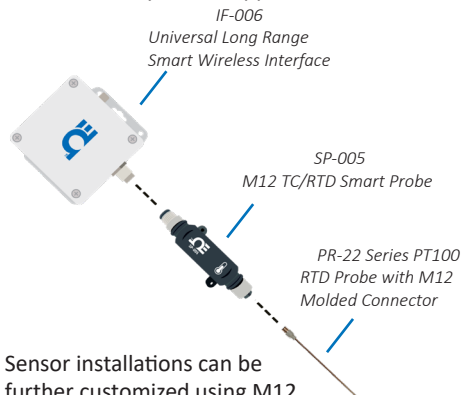


Omega Link Wireless Universal Smart Interface

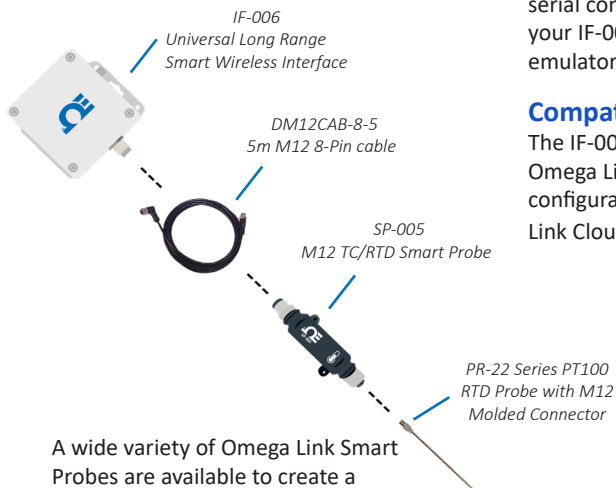
- Modular M12 Connectivity with Omega Link Smart Probes
- Robust Long-Range Sub GHz Communications
- Wireless Communication up to 3.2 km¹
- IP65 NEMA 4 Environmental Rating
- Password Protection for data
- Up to 5-year battery life²

Modular Universal Design

The Omega Link IF-006 Interface is designed to be used in conjunction with Omega Link Smart Probes. The two elements snap together with a twist of an M12 connector to create a universal solution for any sensor application.



Sensor installations can be further customized using M12 modular extension cables to quickly tailor solutions for any application.



A wide variety of Omega Link Smart Probes are available to create a customized wireless solution that fits your application. Including

temperature, humidity, pressure, light, thermocouple, RTD, process, count, pulse, load cell, heat flux, and more.

One-Button Pairing

The IF-006 is easily paired to the Omega Link Gateway with the press of a button and will automatically show up on your Omega Link Cloud account. The Omega Link Gateway can connect up to 100 Smart Sensors³ per unit. Local data logging keeps your data secure in the event of a power or network outage. Reports, History, and E-mail alerts from the Omega Link Cloud keep you informed on the status of all your vital processes.

Intuitive Configuration

Configure your Omega Link Smart Probes using your IF-006 and our free SYNC configuration software. An integrated Command Line Interface allows for quick serial configuration and monitoring of your IF-006 using any standard terminal emulator.

Compatibility

The IF-006 is fully compatible with the Omega Link ecosystem of devices, SYNC configuration software, and the Omega Link Cloud.



Security and Access Control

Omega Link wireless products are designed with state of the art security features to protect your data with robust AES256 encryption and advanced PKA-EC521bit (NIST) elliptic-curve cryptography to protect your data. Password protection ensure that access to device data is restricted and only accessible by authorized users. Device Authentication ensures that Omega Link Smart probes connect to validated Omega devices.

1. When in High Power Mode, without obstruction.
2. Actual battery life may vary depending on the user set reading frequency and power setting.
3. 100 Sensors are supported at typical update intervals, on the order of 60 minutes, higher data rates or adverse environmental conditions may diminish the number of sensors supported.

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Specifications

Wireless Communication

Frequency: 915 MHz

Range*: Up to 1.2 km in low power mode
Up to 3.2 km in high power mode

**Clear line of sight. Actual range may vary depending on environment.*

Power

Alkaline Battery: 2x C-Cell batteries (included)

Transmit Power	Update Time	Battery Life*
Low	2 Mins	2 Years
Low	90 Mins	5+ Years
High	2 Mins	1 Year
High	90 Mins	3 Years

** Typical. Actual battery life may vary depending on the connected sensor, signal strength and environmental conditions.*

External Power: 5 V_{DC} @ 1.75 W

**External power adapter optional. External power specification based on Omega specific power adaptor.*

Environmental

Operating Conditions for Base Unit:

-20°C to 70°C (-4°F to 158°F), 90% RH non-condensing

Rating: IP65

General

Software: Compatible with SYNC configuration software and Omega Link Cloud

Mechanical

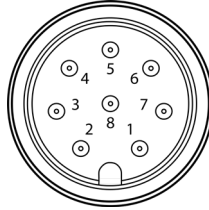
Dimensions: 109.22 mm W x 81.28 mm L x 55.88 mm H (4.3" W x 3.2" L x 2.2" H)
width measurement includes mounting tabs

Certification

Contains FCC ID: WR3-MOD16370915

Contains IC ID: 8205A-MOD16370915

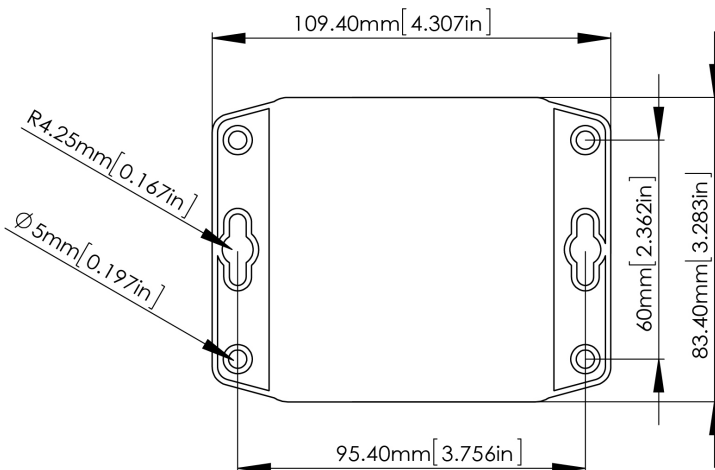
M12 8-Pin Wiring



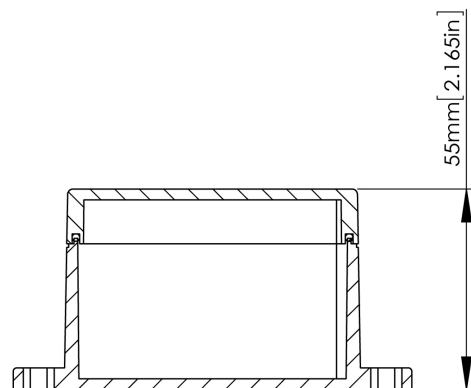
Pin	Name	Function
Pin 1	OUT 1	No Connection
Pin 2	INTR	Interrupt Signal
Pin 3	SCL	SCL Signal
Pin 4	SDA	SDA Signal
Pin 5	Shield	Shield Ground
Pin 6	OUT 2	No Connection
Pin 7	GND	Power Return
Pin 8	VCC	Nominal 3.3 V _{DC} to Smart Probe



IF-006 Dimensions



Bottom View



Side View

Wireless Sub GHz Smart Interface

Model Number	Description
IF-006-1-NA	Wireless Sub-GHz Smart Interface with optional external power

Accessories

Model Number	Description
UNIV-AC-110/240-5-M8	Universal AC adapter with M8 connector

Omega Link Gateways

An Omega Link Wireless Gateway is **required** to connect your IF-006 to the Omega Link Cloud.

Model Number	Description
GW-001-2-NA	Wireless IIoT Gateway Standard, Ethernet connectivity, connects up to 100 Omega Link Smart Sensors- 915 MHz
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-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

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

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.

