# Get Connected with Omega's Layer N EcoSystem

## A New Way to Monitor and Control



## WHAT IS LAYER N?

Layer N is an ecosystem of smart devices that allow you a simple, smart, and flexible way to monitor and control your applications remotely. Temperature, humidity, light, and barometric pressure readings are captured, stored, processed, and transported in real-time to the cloud via wireless smart sensors and gateways, allowing reports to be accessed from anywhere at any time.

Elevate the way you collect information and enjoy a better end-to-end application experience with the Layer N ecosystem.

## HOW DO LAYER N PRODUCTS WORK?

### Smart Sensors
Sense, store, and process real-time data with superior connectivity

### Gateway
Collect and securely and data from the sensor layer to the cloud

### Cloud
Continuously collects and process sensor data providing real-time reporting and analytics



### Modbus Support
Integrate your existing devices with Modbus for itelligent data transport to the cloud.

### Wireless Smart Interface
Provides wireless integration of Smart Probes to the Layer N Gateway to create a fully customized wireless solution that fits your application

### Mobile Access
Access your data anytime anywhere with an Internet connection

# BUILD YOUR CONNECTIVITY SOLUTION NOW!

## Smart Wireless Sensors

Monitor environmental conditions in temperature, humidity, barometric pressure and ambient light for monitoring industrial equipment such as freezers, ovens, and furnaces.

| IIoT Smart Environmental Sensors | |
| --- | --- |
| Temperature and humidity smart sensor - 915 MHz | SS-001-1-NA |
| Temperature, humidity, barometric pressure, light smart sensor - 915 MHz | SS-001-3-NA |

| Wireless Thermocouple/RTD Smart Sensor | |
| --- | --- |
| RTD, thermocouple or contact closure Temperature and humidity smart sensor - 915 MHz | SS-002-0-NA |
| RTD, thermocouple or contact closure (DIN) Temperature, Humidity, Barometric Pressure, Ambient Light smart sensor -915 MHz | SS-002-1-NA |

## Smart Gateways

Provides wired and wireless connectivity of Smart Probes to the Layer N gateway to create a fully customized wireless solution that fits your application.

| | |
| --- | --- |
| Wireless Gateway Professional, 915 MHZ | GW-001-3-NA |
| Wired Gateway Standard | GW-001-0 |
| Wireless Gateway Standard, 915 MHZ | GW-001-2-NA |

## Smart Probes

Omega offers a wide selection of plug -and-play smart probes for your sensing needs. From non-contact IR sensors to a full range of sensor types including temperature, humidity, process, RTD, thermocouple, pulse, and more.

| M12 Modular Environmental Monitoring Smart Probes SP-003-4-Series | |
| --- | --- |
| Smart Temperature, Humidity, Barometric probe, Tube Housing | SP-003-1 |
| Smart Temperature and Humidity probe, Tube Housing | SP-004-1 |
| Smart Temperature and Humidity probe, Bulkhead Mount | SP-004-4 |

| Smart IR Sensor –70°C to 380°C Temperature SP-001-2-Series | |
|---|---|
| Ultra-miniature smart IR Probe, 101 FOV, 2 Digital I/O | SP-002-1 |
| Ultra-miniature smart IR Probe, 101 FOV | SP-002-0 |
| Ultra-miniature smart IR Probe, 61 FOV | SP-001-0 |
| Ultra-miniature smart IR Probe, 61 FOV, 2 Digital I/O | SP-001-1 |

| | |
|---|---|
| M12 Modular Thermocouple and RTD Temperature Smart Probe SP-005-Series | SP-005-1 |
| M12 Modular Smart Probe Analog Process interface with I/O | SP-014-1 |
| M12 Modular Smart Digital interface counter/totalizer | SP-013-1 |
| M12 Modular Smart Heat Flux Sensor interface with I/O | SP-016-1 |
| M12 Modular Smart Probe Load Cell interface with I/O | SP-010-1 |

## Smart Interface

Provides wired and wireless connectivity of Smart Probes to the Layer N gateway to create a fully customized wireless solution that fits your application.

| | |
|---|---|
| Long Range Sub GHZ Wireless Universal Smart Probe Interface | IF-006-1-NA |
| Smart Probe to Modbus RTU RS-485 serial Interface | IF-002 |
| Modbus Compatible USB Serial to Smart Probe Interface | IF-001 |

## UNLOCK THE NEXT LAYER OF YOUR APPLICATION THROUGH THE CLOUD

## Cloud

Layer N 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.

**Connect your challenge with our connectivity solution at www.newark.com/omega-layer-n**