VaiNet Long-range Wireless

Features

- Vaisala's proprietary wireless solution based on LoRa® long-range radio frequency technology
- Local Display and Alarming
- Detachable smart-probe for simple install and calibration
- Battery powered (standard AA alkaline or lithium)
- Parameters: Temperature and humidity
- Enclosure IP54
- Typical indoor range ≥100 m (328 ft.)
- Maximum 32 data loggers per access point
### Wi-Fi Data Loggers

**Features**

- Local display and alarm status
- External probes available
- Battery powered (or optional wall outlet power cord & battery becomes back-up power)
- Parameters include: temperature, humidity, analog and contact inputs
- Enclosure NEMA rating: IP65

**Standard Wi-Fi Adaptor**

[Diagram showing Wi-Fi data loggers and standard Wi-Fi adaptor with features and connections]
**Power over Ethernet vNet PoE**

1. **Refrigerator**
   - vNet (Ethernet interface) with DL data logger
   - Probes
   - Humidity & Temperature

2. **Ultra-Low Temp Freezer**
   - Temperature
   - Analog Device, such as: CO₂, O₂; Differential Pressure; Particle Monitoring, etc. to Universal Input Data Logger

3. **Existing Network**
   - Remote Monitoring, Alarming and Reporting
   - Remote Alarming

   - Computer or Server (Windows OS) with viewLinc

**Multi-port Ethernet**

4. **PoE Ethernet Converter to interface with data loggers**
   - PoE or DC Power
   - Data Loggers

5. **Existing Network**
   - Remote Monitoring, Alarming and Reporting

   - Computer or Server (Windows OS) with viewLinc

**Direct to PC via USB**

6. **Data Logger**

   - Computer or Server (Windows OS) with viewLinc

   - Remote Alarming
**Features**

- Local display
- External probes available
- Parameters include: humidity, temperature, dewpoint, barometric pressure, CO₂
- Enclosure NEMA rating: IP65
Modbus TCP & RTU

Add devices that communicate over Modbus TCP & RTU: alarm towers, particle counters, and other Modbus devices.

Modbus TCP

Windows Server with viewLinc

Remote Monitoring, Alarming and Reporting

Remote Alarming

Connect a variety of probes to viewLinc through the Vaisala Indigo host device to measure CO₂, Vaporized H₂O₂, humidity and temperature.

Temperature Probe (1 or 2 channels)

PoE or DC Power

Existing Network

Modbus RTU

Ethernet Interface

Modbus TCP & RTU

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Windows Server with viewLinc

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Modbus RTU

Ethernet Interface