InetSupervisor™

P2 Programmable Device

APPLICATIONS

P2 typical application includes outdoor, indoor, circadian tunable, street and high bay lighting, HVAC automation, industrial automation, compressed air system automation, etc.

DESCRIPTION, continued on page 2

P2 is a programmable device used to execute graphical programming language. P2 is typically used in a topology where network is designed with high-speed Ethernet backbone. P2 routes VA-Bus EnOcean wireless traffic to the high-level Ethernet network. Protocols used on the Ethernet side include BACnet IP, Modbus TCP*, REST IoT*, Connex, and encrypted BACnet IP. Protocols used on the floor-level networks include VA-Bus wireless, EnOcean.

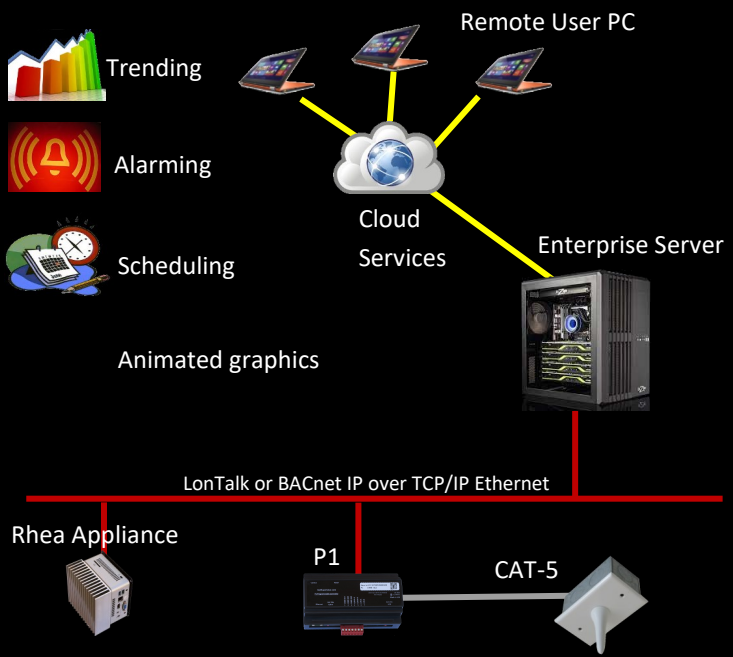
To configure the P2 communication parameters, user will install the InetSupervisor Portal app application on a remote computer then perform device discovery during which all available P2 devices will show up.

The InetSupervisor Portal app performs a function of an IDE used to create programs, debug and compile. Simply drag graphical blocks, referred to as qubits, from the library and connect them with lines which define the path of data flow. P2 poses no limit to the length or complexity of the code other than hardware memory and CPU processing speed, which is displayed during debugging.

P2 is a high performance, programmable controller with wireless VA bus connecting to a EnO – EnOcean antenna. The EnO antenna provides wireless network connectivity, an AIR-Bus. The following devices can reside on the AIR-Bus:

LedRelay one AO and one relay,

L2 – 2 analog outputs 0-10V DC, optionally integrated motion and light level sen-



PRODUCT PART NUMBERS

Part Number: **P2**

DESCRIPTION—continued

sors, 12V DC powered.

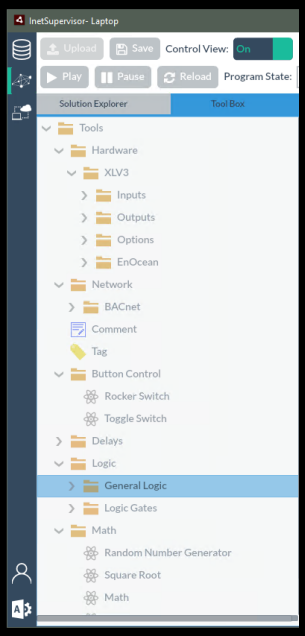
EnOcean sensors and switches, including lighting switch, temperature, CO2, humidity sensors, etc. For more, refer to the standard EnOcean 902MHz products.

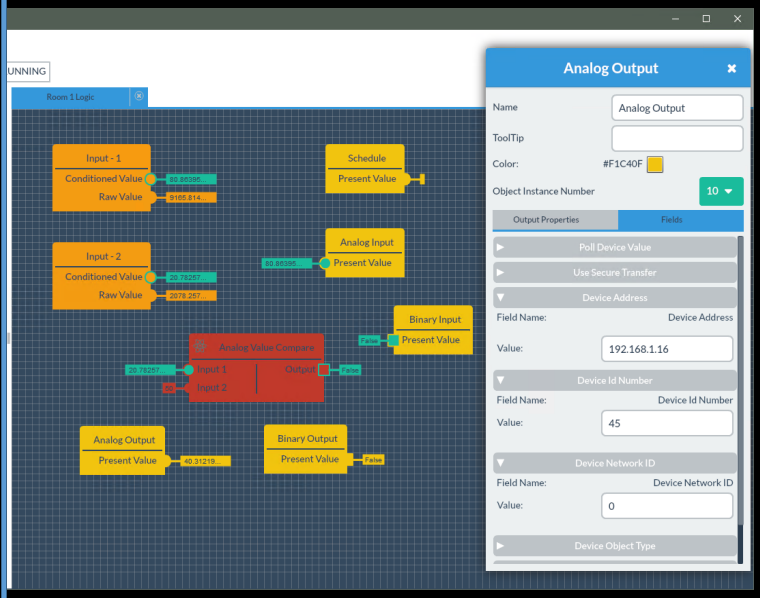
P1 includes on-board real-time clock. When connected to the Internet, P1 will use time servers to synchronize the time automatically, else the user needs to use the Portal app to set proper time.

*Future protocol support. Subject to change

Mobile App

InetSupervisor Portal app provides graphical programming interface for free programming of the outputs, and the logic. The app stores configuration for multiple L2 IOT controllers and arranges it into projects. Programs can be backed up and sent for use in another project. The app currently runs on full version of windows desktops and tablets.





InetSupervisor™

P2 Programmable Device

I/O CONFIGURATION

Communication ports	
RJ-45 Ethernet:	BACnet IP, Modbus TCP*, REST*, encrypted BACnet IP. *Future protocol support. Subject to change
VA-BUS:	Antenna 902MHz EnOcean

INSTALLATION

P2 shall be installed into a NEMA enclosure using 35mm DIN rail.

AGENCY APPROVALS

Safety Certifications	UL916 Energy Management Equipment

WARRANTY

Standard 2-year warranty.

UL916 RoHS

MECHANICAL

Hardware	
Processor	ARM A8, 1GHz
Storage	4 Gb flash solid state memory
Power	
Supply Voltage	12-50V DC or 24V AC
Supply Current	450mA max
Enclosure	
Material	ABS plastic
Color	Black
Installation	35mm DIN rail
Environment	
Temperature	0°-50°C (32°-122°F)
Humidity	0-90% non-condensing
Storage	-20°- 70°C (-4° - 158°F)

6.25in

I/O CONFIGURATION

NOTE: No Hardware Jumpers required to configure I/O

16 x Universal Inputs	The first two inputs accept resistive signals only.
Resistive	Thermistor 10KΩ Type II and Type III
	(Type II is recommended)
	Potentiometer with custom scaling
	Dry contact
Voltage	0-10V DC
Current	0-20mA DC
8 x Digital Outputs	
	SSR rated at 500mA @ 24V AC /DC external power supply
8 x Analog	20mA max at 30°C, 8bit resolution
	0 or 10VDC Digital / Binary
	0-10V DC adjustable , linear

STATUS LIGHTS

LED	
Device status GREEN	Pulsing green = Normal
	Off = No power or other fault
Service pin GREEN	OFF = Normal, running
	ON = No application

AGENCY APPROVALS

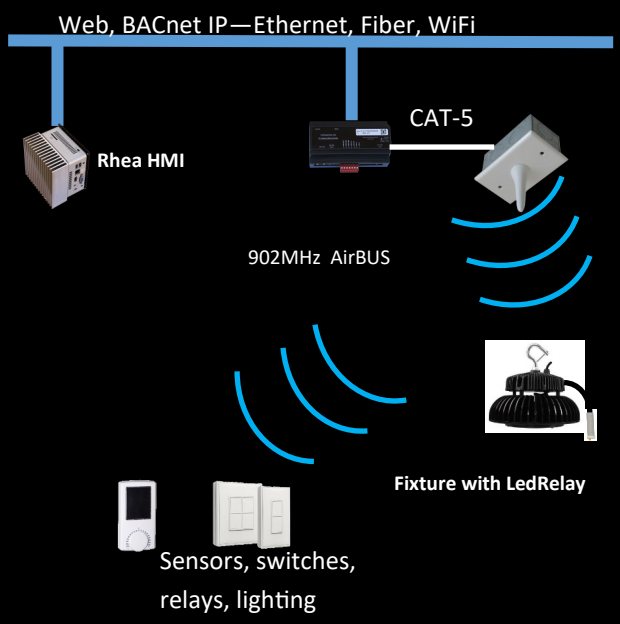
Safety Certifications	UL916 Energy Management Equipment CSA C22.2#205 Issue 1983/06/01 (R2009) Signal Equipment standard

WARRANTY

Standard 2-year warranty.

LonMark **UL916** **RoHS** Intertek

Typical lighting installation

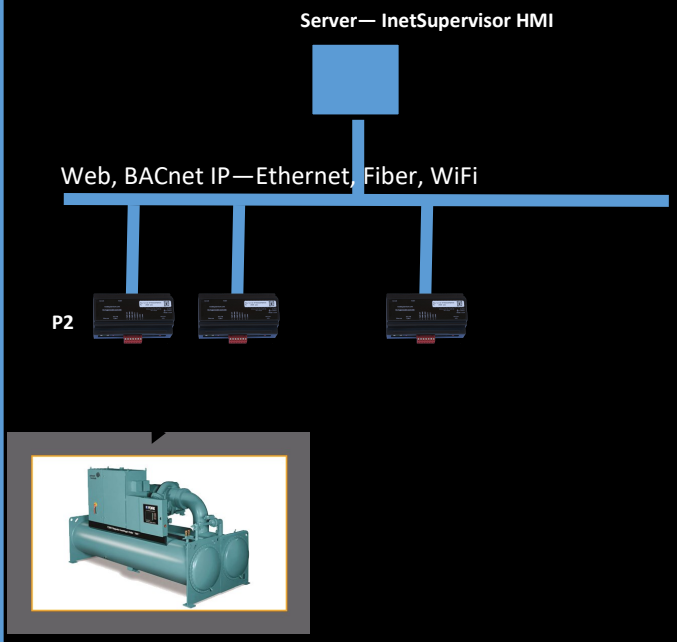


Rules of thumb:

- Antenna covers about 200ft radius, line of sight.
- P2 can service about 150 LedRelays max.
- P2 can service 2 antennas max.

Individual projects vary and the integrator may find the above rules conservative or optimistic, mostly conservative.

Typical LonWorks installation



P2 controls HVAC hardware directly using on-board physical I/O.