P1 Programmable Device

VA-BUS



ronID:0702539A84

APPLICATIONS

P1 typical application includes outdoor, indoor, circadian tunable, street and high bay lighting, HVAC automation, industrial automation, compressed air system automation, etc.

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DESCRIPTION, continued on page 2

P1 is a programmable device used to execute graphical programming language and communicate it to I/O expansion modules. P1 is typically used in a topology where network is designed with reliable twisted-pair floor level network, referred to as FT-10, high-speed Ethernet backbone, and Q-Bus I/O subnetwork. P1 routes Q-Bus traffic to the high-level Ethernet network. Protocols used on the Ethernet side include BACnet IP, Modbus TCP*, REST IoT*, and encrypted BACnet IP. Protocols used on the floor-level networks include FT-10, Q-Bus and VA-Bus.

To configure the P1 communication parameters, user will install the <u>InetSupervisor Portal app application</u> on a remote computer then perform device discovery during which all available P1 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. P1 poses no limit to the length or complexity of the code other than hardware memory and CPU processing speed, which is displayed during debugging.

A high performance, scalable and programmable controller is formed by P1 in combination with one or more I/O devices. P1 performs program logic execution and directs its results to Q-bus I/O devices. Devices that connect to Q-BUS port of P1 include:

<u>SI1 – 16 universal inputs</u>

PRODUCT PART NUMBERS

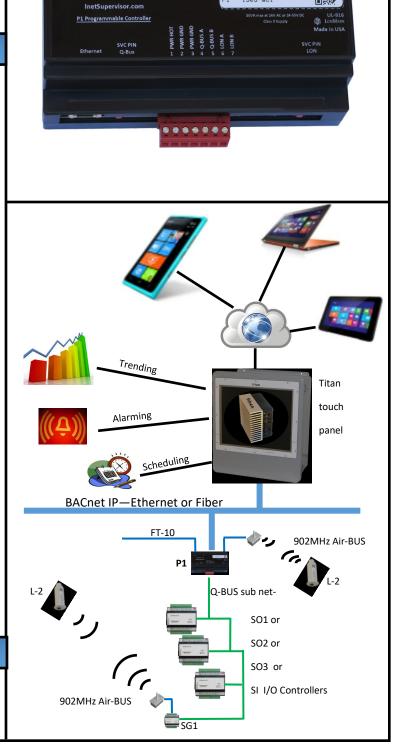
Part Number: P1

Or Part Number: P1-LON

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P1 Programmable Device



DESCRIPTION—continued **Mobile App** SO1 – 16 solid state relay outputs InetSupervisor Portal app provides 🖹 Save Control View: <u>SO2 – 8 analog outputs, and 8 digital</u> triac outputs graphical programming interface for Pause 🔐 Reload Program States SG1 – gateway capable of performing the following free programming of the outputs, and tasks: the logic. The app stores configuration V 🚞 XLV3 Connectivity of Modbus RTU/RS-485 devices for multiple L2 IOT controllers and ar-> inputs to the InetSupervisor Portal app graphical ranges it into projects. Programs can be > 🚞 Outputs > 🚞 Optic programming backed up and sent for use in another > 🚞 EnOc One VA-BUS port capable of attaching one project. The app currently runs on full > 🧮 BACne EnO antenna, or one H1. version of windows desktops and tab-Tag lets. Button Contro P1 also includes one VA-BUS port suitable to connect one Rocker Swite Toggle Sw of the following devices: Delays H1 – Human Interface, software-definable buttons, > 🚞 Gene 🔪 🚞 Logic Ga many feedback LEDs. Wall mounted. Math 🛞 Ran EnO – EnOcean antenna, provides wireless network Square Root connectivity, an AIR-Bus, to the Q-Bus. The follow-A Math ing devices can reside on the AIR-Bus: L2 – 2 analog outputs 0-10V DC, optionally integrated motion and light level sensors, 12V DC powered. Analog Output ToolTi EnOcean sensors and switches, including #F1C40F lighting switch, temperature, CO2, humidity sensors, etc. For more, refer to the standard EnOcean 902MHz products. Device Addre P1 optional LonWorks interface includes 100 NVI (Network Value 192,168,1,16 Variable Inputs) and 100 NVO (Network Variable Output). Due to changeable types user can expose wanted infor-45 mation from within the graphical programming as a set of Field N SNVT (Standard Network Variable Types) and connect/bind Value them to other FT-10 devices. P1 includes on-board real-time clock with a full battery backup. The life expectancy of the battery backup is about 9 years with no external power. 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

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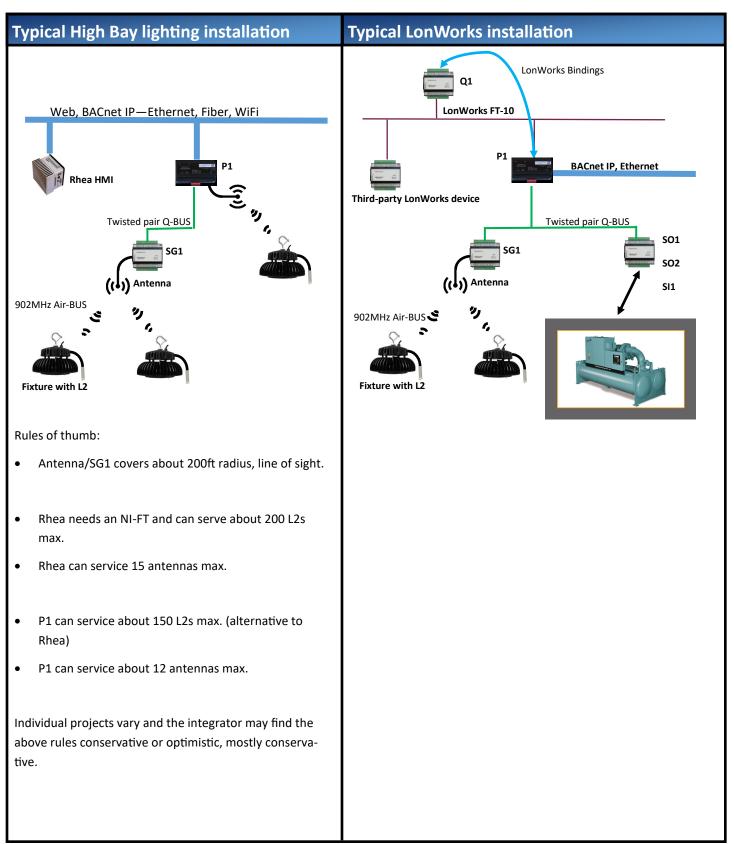


I/O CONFIGURATION		MECHANICAL	MECHANICAL	
Communication		Hardware		
oorts		Processor	ARM A8, 1GHz	
		Storage	4 Gb flash solid state memory	
		Power		
RJ-45 Ethernet:	BACnet IP, Modbus TCP*, RES	T*, Supply Voltage	12-50V DC or 24V AC	
	encrypted BACnet IP.	Supply Voltage	450mA max	
	*Future protocol support. Subject to			
		Material	ABS plastic	
Q-BUS:	encrypted BACnet IP	Color	Black	
		Installation	35mm DIN rail	
/A-BUS:	Antenna or H1 hardware port			
on)Morkey	Ontional FT 10 turns D1 into	Environment		
LonWorks:	Optional FT-10, turns P1 into	. emperatar e	0°-50°C (32°-122°F)	
	Works device, compatible wit	· · · · · · · · · · · · · · · · · · ·	0-90% non-condensing	
	standard LON, changeable typ	oes. Storage	-20°- 70°C (-4° - 158°F)	
INSTALLATION	N			
		CI T	Iter 30'0A must 13'Y AC (2' 3'5'Y OC Observed) Otto 10'0A must 13'Y AC (2' 3'5'Y OC Observed) Otto 10'0A must 13'Y AC (2' 3'5'Y OC Observed) U0112 Otto 10'Y STR 10'O Observed (1'Y Observed) SVC PIN Made in USA U0113 SVC PIN LON LON	
AGENCY APP	ROVALS	InetSupervisor.com <u>P1 Programmable Control</u> 	NeuronID:0702539A8400 UP36 P1 1909 QCI UP36 B074 mar # 33V AC # 245350C UP36 Cons # 56929 UP36 UP36 Cons # 56929 UP36 UP36 UP36 Cons # 56929 UP36 Cons # 56929 UP36 Made in USA Made in USA SVC PIN 1 2 3 4 5 6 7 LON	
AGENCY APP Safety Certificatio		CI T T T T T T T T T T T T T	HeuronID: 079253986400 P1 1909 QCI Down is tav & cr 249500 Cours is buggy Her UNING WARD 5 5 7 LON 1 2 2 5 7 LON 1 2 5 5 5 5 7 LON 1 2 5 5 5 5 5 7 LON 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
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	ons UL916 Energy Manage Equipment	CI T T T T T T T T T T T T T	HeuronID: 079253986400 P1 1909 QCI Down is tav & cr 249500 Cours is buggy Her UNING WARD 5 5 7 LON 1 2 2 5 7 LON 1 2 5 5 5 5 7 LON 1 2 5 5 5 5 5 7 LON 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	

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