

pcProx® Plus Readers for Rockwell Automation HMI and Programmable Controllers

Increase Efficiency for Better Operational Workflow



A manufacturing environment must be optimized for maximum workflow efficiency and minimal downtime. As part of an enterprise resource plan, devices such as operator terminals are used to monitor, control and display information graphically which allows operators to quickly understand the status of their application.

To further optimize workflow, the pcProx Plus® readers are partnered with the PanelView™ Plus terminals or Logix™-based controllers for operator identification, leveraging existing employee badge systems and eliminating the need to manually log in on the terminals. A simple wave or tap of the badge to the reader saves valuable time during the login process by avoiding typing errors and re-entry, resulting in precious time saved.

Access control is another important aspect that RF Ideas readers enable. PanelView Plus terminals have an integrated runtime system called FactoryTalk® View Machine Edition (ME) Station and applications are programmed with FactoryTalk® View Studio software. Security configurations can be modified in the ME application at design-time as well as runtime. Users can be added or deleted easily or a user's group can be changed.

Factory workers, operators or plant managers can log on to the FactoryTalk-enabled system quickly and easily. The user identification and authentication enabled through the pcProx Plus readers helps ensure proper access and a more secure environment. Regardless of badge type, the RF Ideas reader portfolio is unmatched in the industry.

FEATURES AND BENEFITS

All RF Ideas products are easy to install, easy to operate, configurable, high quality, and reliable.

FEATURES

- Automatic Identification and authentication
- Variety of Models (USB, EtherNet/IP)
- Reads over 45 different proximity/contactless cards

BENEFITS

- Eliminates need for manual entry to improve workflow efficiency by avoiding typing errors and multiple entry errors.
- Versatile product line offers flexibility of models to fit needs of the company or individual facilities.
- Supports 125 kHz & 13.56 MHz. No need to replace current company badge system, saving money.

HUMAN-MACHINE INTERFACE (HMI)

The first solution is a USB version reader allowing connection to the PanelView Plus terminal. The pcProx Plus is a keyboard wedge interface and simply keystrokes the combination of commands, username and password to complete the login sequence.

INTERFACE TYPE	FORM FACTOR		
pcProx Plus	Panel Mount	Panel Mount IP67	Desktop
USB Gray	RDR-805W1AGU-RA	KT-805W1AGU-RA-IP67	N/A
USB Black	RDR-805W1AKU-RA	KT-805W1AKU-RA-IP67	RDR-80581AKU-RA

PROGRAMMABLE CONTROLLERS

The second solution is an EtherNet Industrial Protocol interface with Power-over-Ethernet for direct connections into many of the Rockwell programmable controllers, such as CompactLogix. The programmable controller receives an ASCII string of the employee badge number to process against a database and executes operations. RF IDEas has an EDS file and sample code available.

INTERFACE TYPE	FORM FACTOR		
pcProx Plus	Panel Mount	Panel Mount IP67	Desktop
Ethernet Industrial Protocol (EIP) Black	RDR-805W1AKB-P	KT-805W1AKB-P-IP67	RDR-80581AKB-P

POWER OPTIONS

In order to supply power to the reader in a manufacturing environment there are many options; some require the customer to buy a separate power converter from another company. The following table is provided as a guideline.

OPTION	DESCRIPTION
Power over Ethernet (PoE)	Power is derived from a PoE equipped Router Switch for multiple runs or from an in-line Power Injector for single Ethernet drops. A typical installation can use existing Ethernet cables with in-line power injectors to power the readers.
24V PLC rail	Some solutions are commercially available to adapt the 24V rail to PoE. Your sales associate may be able to recommend a solution for your installation.
220VAC	PoE power injectors can be purchased from most major computer supply catalog houses and retail outlets. Most have universal power supplies that will work from 90 to 230AC.

FOR MORE INFORMATION

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