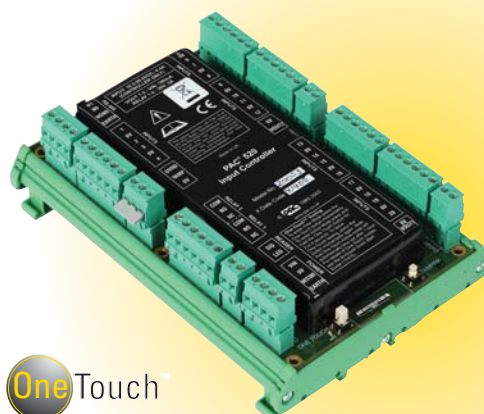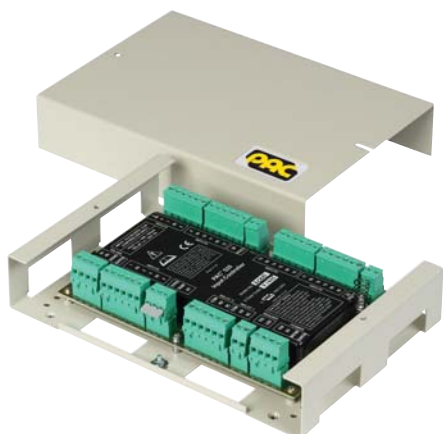# PAC® 520 Input Controller

The PAC 520 Input Controller provides the PAC SecureNet system with notice of critical alarm points in monitored areas. An Input Controller connects directly to a PAC 500 Access and Alarm Server with either standard alarm or CAT 5 cable using RS-485 communications.

Designed and manufactured for use with PAC SecureNet Access Control software, which monitors and controls different devices, including alarms, motion detectors, temperature sensors and other associated devices. Twenty user inputs are configurable as Normally Open (NO) or Normally Closed (NC), with optional supervision via three or four state monitoring. Two 2 Amp outputs are configurable as latched, momentary, toggling or pulsing.

The unique One-Touch™ testing mode shows the state of each output and input providing instantaneous polling and communication status at the controller with just the press of a single button. Installation testing has never been simpler, no PC is required and complex programming and dip switch configuration is avoided.
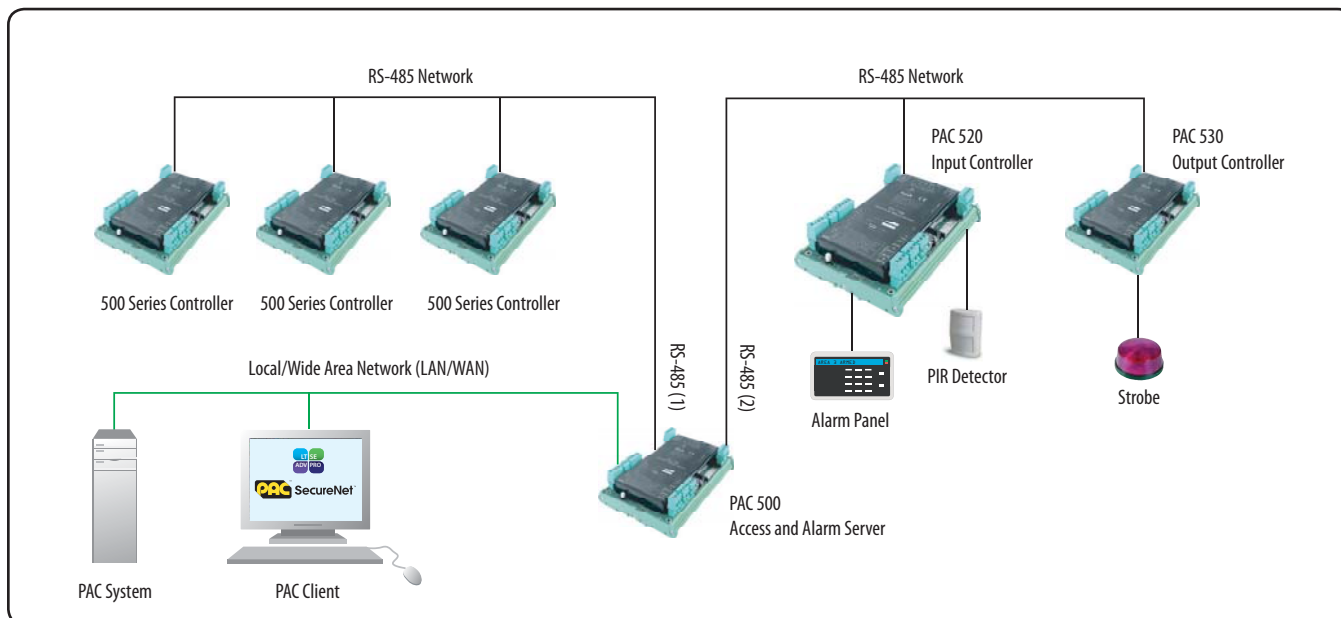
Key Features:

- 20 User Inputs (supervised or non-supervised)
- Override and Tamper inputs
- All inputs can be individually configured to be two state, three state or four state
- 2 x 2 Amp latching relay outputs
- Both outputs can be configured as latched, momentary, toggling or pulsing
- Status LEDs show the state of all Inputs and Outputs using One-Touch™
- Fast RS-485 communications to PAC 500
- Up to 48 input controllers can be connected to a single PAC 500 via RS-485
- Receives and processes real time commands from the PAC 500
- Reports all activities to the PAC 500
- Enables complex input and output linking with PAC 500 and PAC 530
- Watchdog reset for maximum reliability
- Unique One-Touch™ installation mode simplifies and speeds up system commissioning, without need for a PC or programming
- Wide voltage operation 10.5V to 28V
- Two polyfused 10/100mA auxiliary voltage outputs
- Power supply status monitored and reported
- Fast 16 bit microprocessor
- Easy in-field firmware upgrades
- DIN-Rail mounting for ease of installation

The diagram shows the network topology with the following labeled components:

- RS-485 Network (left) connecting three 500 Series Controllers
- RS-485 Network (right) connecting PAC 520 Input Controller and PAC 530 Output Controller
- Local/Wide Area Network (LAN/WAN)
- PAC System
- PAC Client (PAC SecureNet)
- RS-485 (1) and RS-485 (2)
- PAC 500 Access and Alarm Server
- PAC 520 Input Controller connected to Alarm Panel and PIR Detector
- PAC 530 Output Controller connected to Strobe

Features & Specification

Description	PAC 520 Input Controller - DIN Mount PAC 520 Input Controller (Boxed)
Dimensions/Weight:	DIN: H:125mm x W:180mm x D:60mm Boxed: H: 220mm x W: 150mm x D: 40mm
Temperature/ Humidity:	Operating: -10°c to +55°c (14°f to +130°f) Storage: -25°c to +80°c (-13°f to +176°f) Humidity: 0 to 85% RHNC
Outputs	2 x 2-Amp latching relay outputs, configurable as latched, momentary, toggling or pulsing
Inputs	20 software configurable alarm inputs can be used for alarm device monitoring. Configurable via SecureNet software as N/O (normally open), N/C (normally closed) and two, three and four state sensor configurations
Communication Ports	RS-485 (57.6K bps)
Wiring Requirements	RS-485 - CAT5 up to 1000m, 3000ft total cable or 7/0.2mm, 1500ft total cable
Module Power	10.5VDC @ 115mA to 28VDC @ 45mA
Warranty	5 Years
Regulatory Compliance	BS8030:2001 "Providing Access Solutions for Disabled People" EN 50133 - Access control systems for use in security applications EN55022 Class B. EN50130-4. CE Certified. FCC - Part 15 Class B. Designed for UL1076 and UL294

Ordering Information

Part number	Description
20051	PAC 520 Input Controller (Boxed)
20053	PAC 520 Input Controller - DIN Mount