OPTO 22

PAC Project Basic and Professional Comparison Chart

The following table compares the features in version 9.4 of PAC Project™ Basic and PAC Project Professional. See Opto 22 form #1677, the *SNAP PAC Controller and Brain Comparison Chart*, for more details on controllers.

Feature		Basic	Pro
Included software	PAC Control™ Basic	●	●
	PAC Control Professional		●
	PAC Display™ Basic	●	●
	PAC Display Professional		●
	PAC Manager™	●	●
	OptoOPCServer™		●
	OptoDataLink™		●
	SoftPAC™		●
Control software: PAC Control			
Compatible controllers	SNAP PAC S-series standalone industrial controllers	●	●
	SNAP PAC R-series on-the-rack controllers	●	●
	SoftPAC software-based controller	●	●
Compatible brains	Built-in I/O unit (in SNAP PAC R-series controllers)	●	●
	SNAP PAC brains	●	●
	G4EB2 brains	●	●
	Serial *mistic*™ brains/bricks*: B3000-B, B3000, SNAP-BRS, B100, B200, G4D16R, G4D32RS, G4A8R		●
Network	*Controller to PC:* Wired Ethernet Wireless 802.11a,b,g (Wired+Wireless controller required)	●	●
	Controller to I/O: S-series—Ethernet to EB brains and serial to SB and *mistic* brains R-series—Ethernet only. Wireless with Wired+Wireless controllers.	●	●
	Controller to third-party devices: Ethernet or serial	●	●
	Support for Ethernet link redundancy or segmented control network		●
	Support for controller redundancy (S-series only)		●
Main features	Flowchart programming	●	●
	OptoScript programming	●	●
	Subroutines (debuggable)	●	●
	Graphical debugger	●	●
	Conversion utility for OptoControl strategies (version 4.1 and newer)		●
	Support for serial *mistic* I/O units*		●
	Ethernet link redundancy (with R-series I/O units)		●
	Controller redundancy*		●
Maximum charts running at once	On SoftPAC (plus host task)	64	64
	On SNAP PAC S-series (plus host task)	32	32
	On SNAP PAC R-series (plus host task)	16	16

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Feature		Basic	Pro
Proportional-integral derivative (PID) loops	PID algorithms for Ethernet	4	4
	PID algorithm for *mistic* serial*	--	1
	Loops per SNAP PAC brain	96	96
	Loops per *mistic* brain/brick*	--	8
	Graphical tuner for Ethernet PID loops	●	●
	Graphical tuner for *mistic** PID loops		●
Ethernet link redundancy	Primary and secondary IP addresses for controllers and R-series I/O units		●
	PAC Control commands can be used to control redundancy algorithm		●
Controller redundancy*	PAC Redundancy Manager utility		●
	Checkpoint blocks and redundant/persistent tags		●
Additional toolkits	Allen-Bradley DF1 Integration Kit	●	●
	Modbus Integration Kit (serial and TCP)	●	●
	Controller Area Network (CAN) Integration Kit	●	●
	Other Integration Kits (BACnet, TL1, DNP3, IEC60870-5)	●	●
HMI software: PAC Display			
Main features	Alarming	●	●
	Trending	●	●
	Logging	●	●
	Operator authentication and login	●	●
	3000-graphic library	●	●
	Additional graphics tools for PID and embedding web pages		●
	Data logging to MySQL, Microsoft® SQL Server, and other ODBC databases		●
	Conversion utility for OptoDisplay projects		●
	Ethernet link redundancy		●
	Scanner redundancy		●
	Primary and secondary scanner		●
Controllers supported	SNAP PAC controllers	●	●
	Controllers running ioProject	●	●
	Controllers running FactoryFloor on Ethernet network		●
Ethernet link redundancy	Primary and secondary IP addresses for control engine		●
OPC server: OptoOPCServer			
OPC version	OPC 2.0-compliant		●
Database connectivity: OptoDataLink			
Databases supported	Built-in, easy data transfer to Microsoft SQL Server, Microsoft Access, MySQL, text files	**	●
PC-based control: SoftPAC			
Compatible brains	SNAP PAC (R-series and EB-series)	●***	●
	G4EB2 brains	●***	●

* Requires SNAP PAC S-series controller(s)
** Limited options using strategy logic if the user is an expert at database programming
*** SoftPAC must be purchased separately.

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