8/16 relays, 8 isolated digital inputs, 24 V









LabVIEW

1000

LabWindows/CVI™

Features

relays

- 8 or 16 electromechanical relays with change-over contacts
- Max. switching voltage for the relays: 60 VDC, 48 VAC
- Max. switching current: 30 W, max. 1 A
- Short response time

Digital inputs

- Option: 8 isolated VAC inputs channels
- Input voltage: 12-24 V (AC+DC) (5-12 V, 48 V on request)
- Watchdog: software-programmable release, stop and time selection
- Addressing through DIP switches
- 3-byte I/O address range needed

Safety features

- EMC tested
- Watchdog activity can be read back
- Optical isolation of the relays

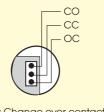
EMC tested acc. to 89/336/EEC

 IEC 61326: electrical equipment for measurement, control and laboratory use

Applications

- Industrial digital I/O control
- Automatic test equipment
- Signal switching
- Interface to electromechanical relays
- ON/OFF monitoring of motors, lights ...
- Alarm monitoring
- Machine interfacing
- ...

Function principle of the relays



PA 2200

8 or 16 relays output channels

Switching voltage 60 VDC,

48 VAC, switching current 1 A

8 digital inputs 24 V AC

Optical isolation

Watchdog

Easy programming

Software drivers

Driver:

A CD-ROM with the following software and programming examples is supplied with the board.

Standard drivers for:

Windows 2000/NT/98/95, MS-DOS

Drivers for the following application software:

LabVIEW 5.01 LabWindows/CVI 5.01

Samples for the following compilers:

Microsoft VC++ 5.0 Microsoft C 6.0 Borland C++ 5.01 Borland C 3.1 Visual Basic 5.0 Visual Basic 1.0 Turbo Pascal 7.0

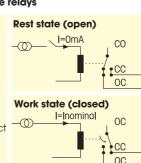
On request:

Delphi 4.0

Current driver list on the web: www.addi-data.com

+49(0)7223/9493-120 +49(0)7223/9493-92

Sales: Fax:

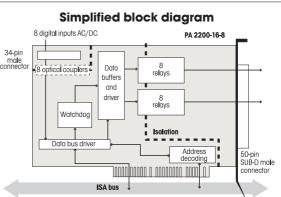


8/16 relays, 8 isolated digital inputs, 24 V



PA 2200

	Specifications	
Relays		
Type of contacts:	8/16 change-over	
Max. switching voltage:	60 VDC, 48 VAC	34-pin
Max. switching current: Max. switching capacity:	1 A 30 W	ma l e connector
Contact resistance:	$< 100 \text{ m}\Omega$	0011100101
Contact material:	Ag+ Au plated	
Responding time:	Max. 5 ms, typ. 2.5 ms	
Release time:	Max. 5 ms, typ. 0.9 ms	
Mecanical life:	5 x 10 ⁶ operations	
Digital inputs		
Number of inputs:	8	
Optical isolation:	through optical couplers, 1000 V	
ophoanioonanioni	from the PC to the peripheral	
Input resistance:	- optical coupler in blocking state: 2 k Ω	
	- optical coupler in conducting state: 1 k Ω	
Nominal voltage:	12-24 V (AC+DC)	Pin a
	5-12 V or 48 V (AC+DC) on request	
Nominal input currents:		Pin
At 5-12 V:	5 mA	34 OC 35 OC
At 12 VAC:	11 mA	36 OC
At 24 VAC:	23 mA	37 OC 38 OC
Signal delay:	70 µs (at 24 V)	39 OC 40 OC
Maximum input frequency:	5 kHz (at 24 V)	41 OC
Watchdog		42 OC 43 OC
Watchdog time:	Software selectable 294 ms or 4.69 s	44 00
Safety		46 OC
Test voltage:	1000 V	47 OC 48 OC
Watchdog	1000 V	49 00
, i i i i i i i i i i i i i i i i i i i		50 -
Noise immunity Test level:	- ESD: 4 kV	OC: Op
lesi level.	- Fields: 10 V/m	
	- Burst: 4 kV	
	- Conducted radio interferences: 10 V	
Physical and environm		Exan
Dimensions:	169 x 99 mm	- Cor - Cor
System bus:	ISA	to ti
Place required:	- 1 slot for the board (XT or AT)	
·	- 1 slot for connecting the inputs	
	(through FB 2200-1)	
Operating voltage:	+5 V, ± 5 % from PC	
Current consumption:	250 mA typ.	
Front connector:	50-pin SUB-D male connector	
Additional connector:	34-pin male connector	
	Connection with 34-pin ribbon cable	
	FB2200-1. connects the board to a bracket	
	with a 37-pin SUB-D male connector.	
Tomporaturo rango:	for connecting the PX 901-ZG. 0 to 60 °C (with forced cooling)	
Temperature range:	010 00 C (Wint forced cooling)	
		Exan
		Conr
Terminal board PX 8000		throu
with cable ST370-16		
	and the second se	



ssignment – 50-pin SUB-D male connector

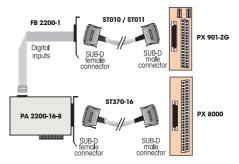
	-							
Pin		Pin						Pin
34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	OC of relay 0 OC of relay 1 OC of relay 2 OC of relay 3 OC of relay 3 OC of relay 6 OC of relay 7 OC of relay 7 OC of relay 7 OC of relay 10 OC of relay 11 OC of relay 12 OC of relay 12 OC of relay 13 OC of relay 14 OC of relay 15	18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	CC of relay 0 CC of relay 1 CC of relay 2 CC of relay 3 CC of relay 4 CC of relay 5 CC of relay 5 CC of relay 7 CC of relay 8 CC of relay 10 CC of relay 10 CC of relay 11 CC of relay 13 CC of relay 13 CC of relay 14	34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	18	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	CO of relay 0 CO of relay 1 CO of relay 2 CO of relay 2 CO of relay 3 CO of relay 5 CO of relay 6 CO of relay 7 CO of relay 7 CO of relay 10 CO of relay 10 CO of relay 12 CO of relay 12 CO of relay 12 CO of relay 12 CO of relay 14 CO of relay 14 CO of relay 15	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

pening contact CC: Closing contact CO: Change-over contact

ADDI-DATA connection

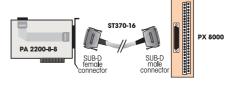
mple 1: PA 2200-16-8

onnection of the relay outputs through screw terminal board PX 8000 onnection of the digital inputs through ribbon cable the screw terminal board PX 901-ZG



mple 2: PA 2200-8-8, PA 2200-8, PA 2200-16

nection of the relay outputs and the digital inputs ugh the front connector to the screw terminal board



ORDERING INFORMATION

ADDINUM PA 2200

PA 2200:

8/16 relays, 8 isolated digital inputs, 24 V. Incl. technical description and software drivers

Connection

PX 8000:	Screw terminal board, 50-pin for DIN rail
ST370-16:	Shielded round cable, 2 m
FB2200-1:	40-pin ribbon cable, is included in the board delivery
PX 901-ZG:	Screw terminal board for DIN rail

www.addi-data.com Sales: +49(0)7223/9493-120 Fax: +49(0)7223/9493-92

Versions PA 2200-16-8: 16 relays, 8 digital inputs PA 2200-8-8: 8 relays, 8 digital inputs PA 2200-16:

PA 2200-8:

16 relays 8 relays