ADDI-DATA®
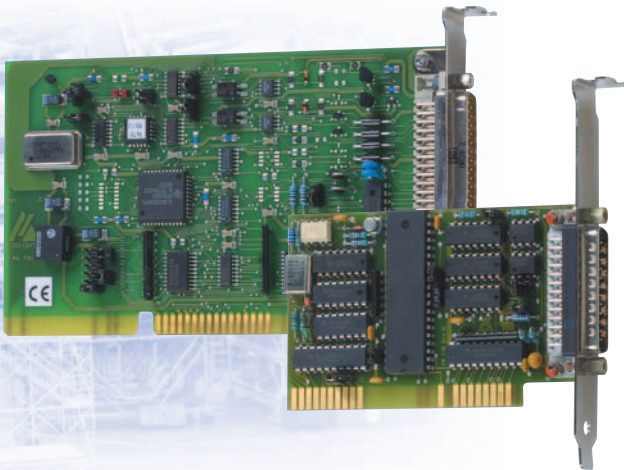

PA 731

Optical isolation for current loop

I/O address selectable through DIP switches

PA 730

RS232, RS422, RS485, Current Loop selectable through jumper

Configurable serial interface

FIFO buffer as option

Features

- Asynchronous communication adapter, 1-port serial interface

EMC tested according to 89/336/EEC

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

PA 731

- RS232 (Option RC: modem control signals CTS, RTS as RS422 signals)
- RS485 (automatic transmitter/receiver)
- RS422 (constant current)
- 20 mA Current Loop, active, passive, with optical isolation
- Addressing als COM1, COM2, COM3, COM4 or selectable through DIP switches (Option S)

PA 730

- Configurable as RS232, RS422, RS485, 20 mA Current Loop (active, passive)
- COM1 or COM2, selectable through jumper
- Interrupts: IRQ3 or IRQ4, selectable through jumper
- Transfer rate: 50 Baud to 112 kBaud
- 5, 6, 7 or 8-bit character
- Parity: even, odd, none, mark or space
- 1, 1½ or 2 stop bits
- UART with 16-byte FIFO buffer (Option U)

Safety features

- Protection against overvoltage
- Short-circuit RS485/RS422

Applications

- Industrial process control
- Industrial serial communication
- Modem and printer interface
- SPS-interface
- Multi-user systems ...

Software

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

Specifications

1-port serial interface

Mode:	RS232, RS422, RS485, 20 mA Current Loop (active, passive) PA 731 (with optical isolation)
Transmission mode:	Asynchronous, full or half duplex
Addressing:	PA 731: COM1, COM2, COM3, COM4 selectable through jumper or free addressing through DIP switches (Option S) PA 730: COM1 or COM2, selectable through jumper
Transfer rate:	50 Baud to 112 kBaud
Protocol:	5, 6, 7 or 8-bit character 1, 1½ or 2 stop bits
Parity:	even, odd, none, mark or space
Interrupt lines:	PA 731: IRQ 3-5 for XT / IRQ 10, 11, 15 for AT selectable through jumper PA 730: IRQ 3 or 4, selectable through jumper
FIFO:	UART with 16-byte FIFO buffer (Option U)

Safety features: PA 731

Overvoltage protection:	Through transorb diodes

Noise immunity

Test level:	- ESD: 4 kV - Fields: 10 V/m - Burst: 4 kV - Conducted radio interferences: 10 V

Physical and environmental conditions

Dimensions:	PA 731: 154 x 83 mm PA 730: 100 x 55 mm
System bus:	ISA
Place required:	short board, 1 XT slot (or AT slot for PA 731)
Operating voltage:	+ 5 V, ± 5 % ± 12 V, ± 10 % from the PC
Current consumption:	250 mA typ. (PA730) 50 mA typ. (PA 731)
Front connector:	25–pin SUB-D male connector
Temperature range:	0 to 60 °C (with forced cooling)

ORDERING INFORMATION

ADDICOM PA 731
PA 731: 1-port serial interface. Incl. technical description and software driver.

ADDICOM PA 730
PA 730: 1-port serial interface. Incl. technical description and software driver.

Options
Option S: Addressing through DIP switches
Option RC: Modem control signals CTS, RTS als RS422 Signale
Option U: UART with 16 byte FIFO-Buffer