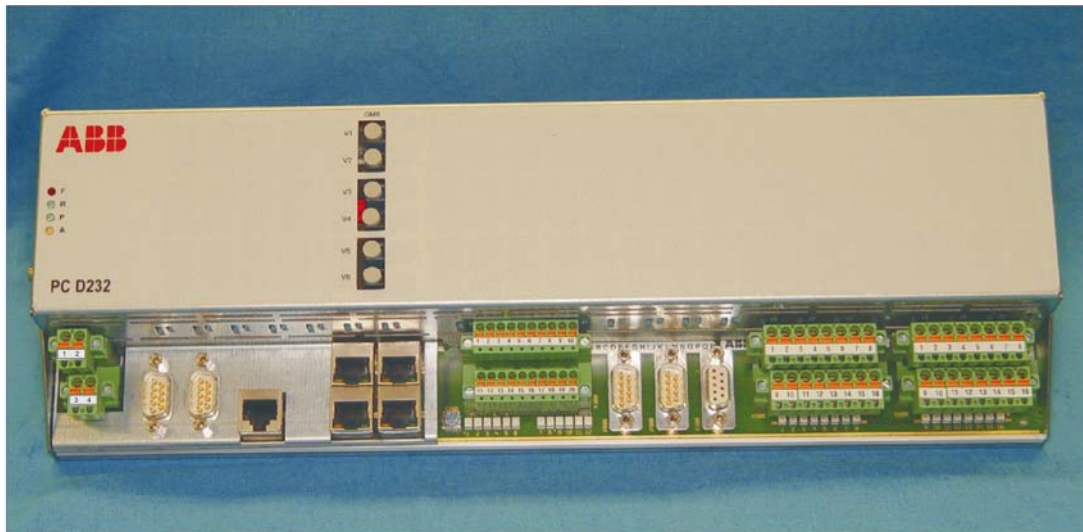


# PC D232 A01 PEC80-CIO Combined Input Output Data Sheet



PEC80-CIO Device

## Features

- 3 interfaces to PT100 or PTC temperature sensors
- 16 Relay outputs
- 12 digital control inputs, 24V or 48V with two independent 24V polling voltage supplies
- 3 analog outputs, +-10V
- 3 analog inputs, +-10V or +-20mA
- 4 system control LED's
- 4 port Ethernet communication switch interface
- Control panel serial interface RS232
- CAN interface RS485
- 1 optical module interface with 3 optical links
- Independent watchdog function
- High Reliability
- Operation temperature range -25 to +70°C

## Highlights

The Combined Input Output device PC D232 A is a general purpose interface device which provides digital and analog inputs and outputs generally used within UNITROL 6000 systems.

Redundancy of all system interfaces by means of two PC D232 A devices is supported.

The device is based on the AC80 PEC control platform and includes the control module PEC80-CU with the processor module PEC80-PM, power supply PEC80-PS and one optical module PEC80-OM. It supports the whole software functionalities as implemented within PEC80 control system.

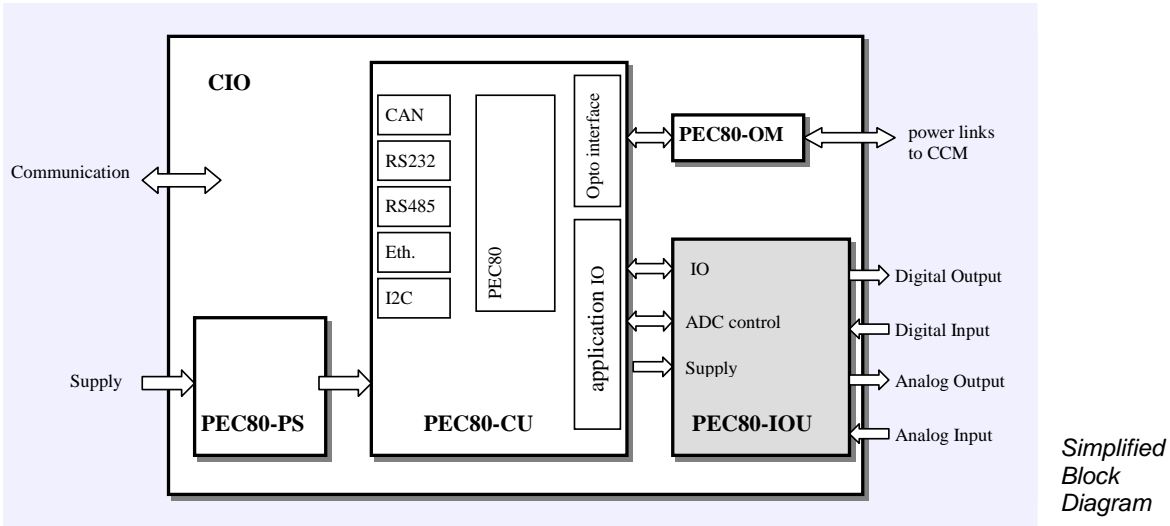
A four port Ethernet switch, a panel interface, a RS485 Modbus and a CAN interface are available for communication.

The device is powered by a redundant 24 volt supply input.

Product Name	ABB Part Code	Ordering Code
PEC80-CIO	PC D232 A0101	3BHE022293R0101



# Technical Data



## Communication

- 4 x 10/100MB Ethernet ports
- ABB Panel
- RS 485 CAN open interface
- RS 485 Modbus interface
- 

## Analog inputs

- Input voltage range -10V...+10V
- Input current range -20mA...+20mA
- Burden resistance 50Ω
- Accuracy < 1% FSR
- Input bandwidth 2kHz
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## Analog outputs

- Output voltage range -10V...+10V
- Max. output current 5mA
- Accuracy < 1% FSR

## Temperature inputs

- Suitable for PTC and PT100 sensor
- 3-wire measurement
- Meas. range PT100 -40 to +240°C
- Accuracy PT100 < 1.5°C
- Switching resistance PTC 500Ω

## Digital inputs

- 2 groups of 6 isolated 24/48 volt input channels
- One polling voltage supply per group
- Input current typically 6mA
- Isolation test voltage 500V<sub>rms</sub>
- Polling voltage 24V
- Max. current of polling voltage supply 85mA

## Digital outputs

- 16 relay output channels
- Switching voltage 250VAC
- Switching current 10A
- Isolation test voltage 500V<sub>rms</sub>

## Device address

- Setting range 0 to 15

## Power supply inputs

- Redundant 24V with 20 to 28V range
- Max. supply current 2A

## Environmental requirements

- Operating temp: -25 to +70°C
- Relative humidity: 5% to 95% @ +40°C
- Vibrations: IEC 60255-21
- EMC: IEC/EN 61000
- Reliability: GB, 40°C 7076 FIT



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