

PCB

I/O controller board.

An I/O controller is used to connect I/O boards to the PRO-NET network. A PCB board can handle up to 8 I/O boards. The I/O boards are connected to the I/O controller with a flat cable. The I/O controller itself has 4 measuring channels. The measuring channels can all be pulse counter inputs; three channels are suited for so-called smart temperature sensors (see PIB-TL).

A PRO-NET network can have up to 30 I/O controllers connected to it. The address of a controller is set with jumpers.

The I/O controller is referred to as 'slave' board as well. This is because it is the 'slave' in the master-slave hierarchy of the PRO-NET network.

The technical specifications are:

Width in TE's (see PRW)	4
Power requirements:	+/- 15VDC, 40 mA. Note that the I/O boards are powered through the I/O controller.
Inputs: #1 through 4	Functions: timer, counter, smart temperature sensor input
Jumpers:	network speed network address
Operating temperature:	-10...+50°C
Storage temperature:	-20...+70°C

The signal connections are:

Connector pin number	Signal
1	0 V system
2	- 15 V DC
3	+ 15 VDC
4	Network loop +
5	Network ground
6	Network loop -
7	5 VDC (auxiliary output)
8	Signal input 4
9	0 V system
10	Signal input 3
11	0 V system
12	5 VDC (auxiliary output)
13	Signal input 2
14	0 V system
15	Signal input 1
16	0 V system

The jumpers are set as follows:

