

PIB-IVA/B/C

Interface board for inverters and AC modules.

The PIB-IVA and PIB-IVB boards provide an interface on the PRO-NET system for inverters and AC modules. The boards have three interfaces. The PIB-IVA has a PRO-NET network interface and two RS-485 interfaces and is suited for the connection of Mastervolt, and OK services inverters to a PRO-NET system. The PIB-IVB has a PRO-NET interface and two RS-232 ports and is suited for the connection of Siemens inverters to a PRO-NET system. The PIB-IVC has a PRO-NET network interface and two RS-485 ports and is suited for the connection of ASP inverters.

The interfaces for the inverters are optically isolated from the rest of the system.

The PIB-IV boards are used as follows. The signal or information that is required from the inverter is defined as an input signal in the PROWIN software just if it were a sensor. As required input type for this signal, the inverter type and the corresponding signal definition of the inverter is entered (for example 'Siemens inverter, total energy since midnight'. The signal is commissioned just like an ordinary signal. In the commissioning procedure, you must specify to which of the two ports on the PIB-IV board the signal is connected. The signal can be treated just like any other signal in the PRO-NET application program.

A PIB-IV station has 8 virtual I/O boards and therefore 64 channels maximally. A PIB-IV board can be 1...4 stations in the network and therefore there are $64 \times 4 = 256$ channels maximally on a single PIB-IV board.

There are jumpers on the board that specify the first station address and there are jumpers that specify the number of stations that the board occupies.

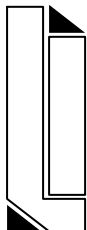
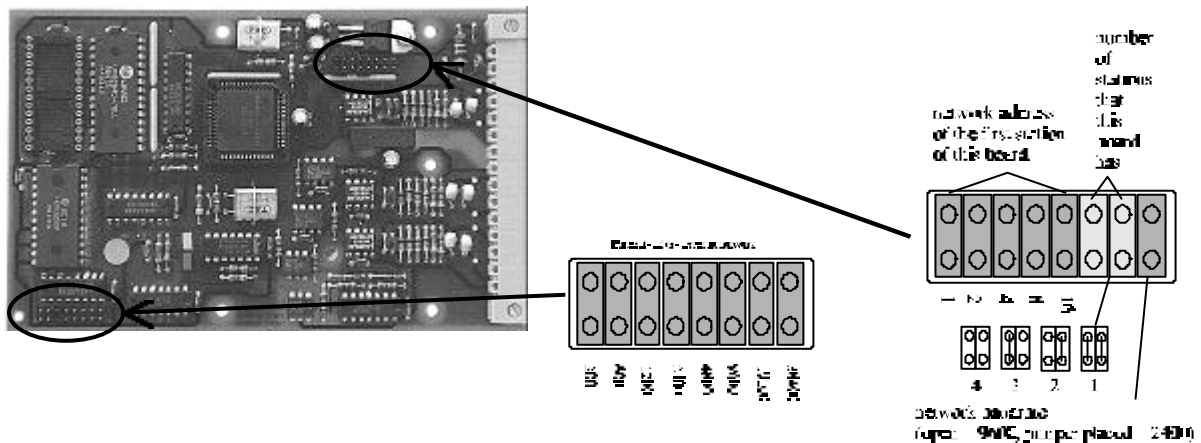
The technical specifications are:

| | |
|------------------------------------|--|
| Width in TE's (see PRW) | 6 |
| Power requirements: | +15VDC, 115 mA |
| Measuring channels: #1 through 256 | Siemens, ASP, Mastervolt, OK services |
| Interfaces: | 1 x PRO-NET network interface 2x RS-232 or RS 485 interface |
| Jumpers: | First station address Number of stations Interface baud rate |
| Operating temperature: | -10...+50°C |
| Storage temperature: | -20...+70°C |

The signal connections are:

| Connector pin number | Signal |
|----------------------|------------------------|
| 1 | System 0 V |
| 2 | -15 V input |
| 3 | +15 V input |
| 4 | Network loop + |
| 5 | Network ground |
| 6 | Network loop - |
| 7 | Network ground |
| 8 | Not connected |
| 9 | Network 1 loop + |
| 10 | Network 1 ground |
| 11 | Network 1 loop - |
| 12 | Network 1 and 2 ground |
| 13 | Network 2 loop + |
| 14 | Network 2 ground |
| 15 | Network 2 loop - |
| 16 | Not connected |

The jumpers are set as follows:



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