

Model EP1011 - Main Power PIFA

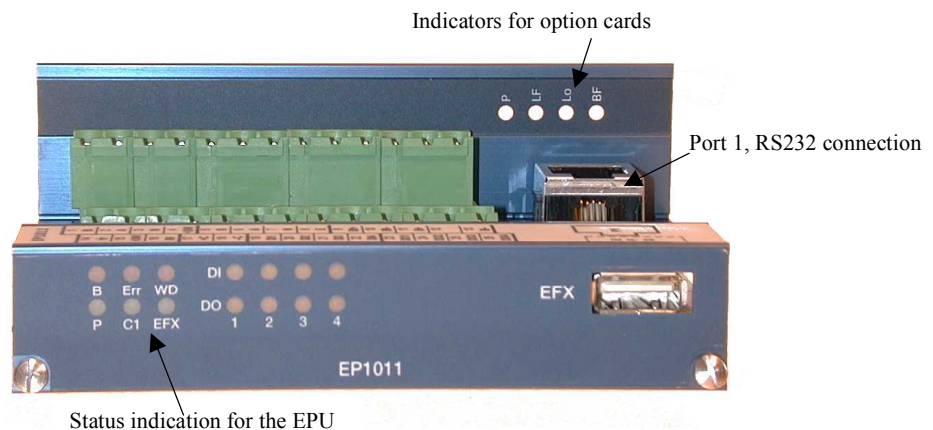
Description

- ❑ See *General PIFA Specifications* on page 132.
- ❑ EP1011 has 4 digital inputs of electrical type **Standard 24V DC DI**.
- ❑ EP1011 has 4 digital outputs of electrical type **Standard 24V DC DO**.
- ❑ The power-PIFA is no EFX-PIFA, meaning the inputs and outputs does not have the same performance specifications as the other PIFA units. Instead, they are handled directly by EXOreal and are primarily designed for slower processes.
- ❑ The power-PIFA EP1011 is intended for mounting in a processor unit in position 1 and powers the internal logic circuits, option cards included, and the internal parts of the PIFA-units.
- ❑ Port 1 has its physical output on this PIFA.
- ❑ The EP1011 contains a battery that retains the contents of the processor's memory and keeps the hardware clock running when the house has no power.
- ❑ The power-PIFA also monitors the battery voltage. When the voltage becomes too low, an LED (marked B) in the front panel is lit.
- ❑ When using the option for battery charging, the +C output will be backed up by the battery.



The battery can easily be replaced by pulling out the Main Power PIFA unit. Each processor contains a small current reserve which will preserve the contents of the memory and keep the hardware clock running for at least 30 minutes while the power-PIFA is not present. See also Chapter 23 *Changing the Battery*.

Figure 65. The EP1011



Status Indication

Designation	Color	Description
B	Red	Battery error
Err	Red	
WD	Red	
P	Green	Power supply
C1	Green	Communication on Port 1
EFX	Green	Communication on EFX-channel

Specifications

Power Supply

Supply voltage.....	24 V DC
tolerance.....	18–30 V DC
power consumption at maximum load.....	1.5 A
power consumption at no load.....	70 mA

Internal, Galvanically Separated, Generated Voltages

5V for Processor, PIFA & options.....	1.5 A
±12 V for PIFA & options.....	200 + 200 mA
24 V for charging regulator.....	250 mA
24 V for LOT via EFX connection.....	250 mA

EFX Port

EFX master. See *Communication Ports* on page 133.

Port 1

See Communication Ports on page 133 and Chapter 7 *Communication Buses & Interfaces*.

Digital Inputs	4
Type.....	see <i>Standard 24 V DC DI</i>
Update cycle.....	100 ms (max 5 Hz)

Digital Outputs	4
Type.....	see <i>Standard 24 V DC DO</i>
Update cycle.....	50 ms

Other

Battery backup of CPU-memory and RTC.....	Lithium cell (min. 5 years for one CPU)
button cell.....	type CR2032
+C output for DI.....	fused with electronic fuse, max. 250 mA
Option 9035, see page 206	

Connections

- ❑ See the description for general DI/DO connections, according to Standard 24V DC DI/DO.
- ❑ The EMI earth \perp must be connected to the earth rail or similar to protect against disturbances.
- ❑ The 0V connection must also be grounded. This is normally done at the power unit's negative pole.
- ❑ Port 1: Type RS232 is connected in the RJ45 contact. See Figure 66. Type RS485/EXOLine is connected in Phoenix connector 5–7, and possibly 8.

Figure 66. Connections for the EP1011.

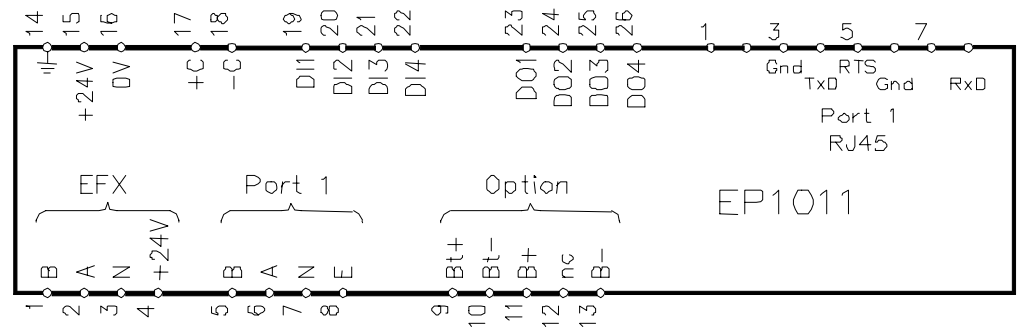
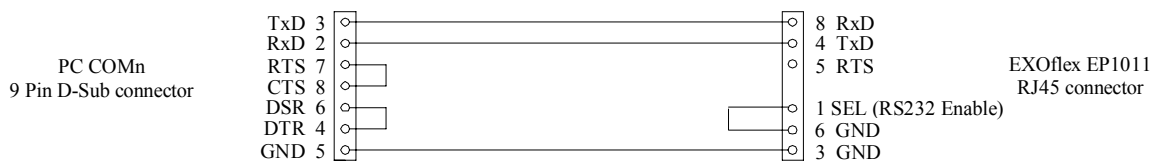


Figure 67. PC to EXOflex EP1011 Port 1, RS232



EXOLine or hLEXOLine is selected with the jumper switch shown in Figure 68.



Note that hLEXOLine and EXOLine must not be mixed on the same communication loop.

Figure 68. The jumper for selecting EXOline/hlEXOline.

