

Nano Data Sheet



The EFT Nano is a fully FCC approved and CE marked industrial data logging module capable of receiving up to four pulse inputs in total. Logging capacity in the RAM is approximately **108 days**. There is also a serial EEPROM at the I²C-bus with 64 words for storing configuration data like network address, serial interface speed. The isolated Ethernet interface is accessible at a RJ45 connector and automatically detects 10/100 MBit network speeds. MAC and IP address etc. are stored in the EEPROM. The Optimiser has one standard UART interface. This is RS232-driven and is accessible through a 9pin D-connector. RTS and CTS are supported as handshake signals; DTR is activated when the CPU is turned on. Standard configuration setting of time and IP address is done using telnet or HyperTerminal using either the RJ45 or serial interface. The units come with a factory set IP address of 192.168.17.17

Ethernet

The Ethernet-Connector has a standard 10/100-base-T pinouts with 1/2 for Rx and 3/6 for Tx.

Inputs

There are four digital inputs that are isolated against the CPU. They are suitable for p-switching transducers and expect 24VDC nominal for an active input. PNP-transducers can be connected directly to each input.

Power Supply

The module has to be supplied with 24VDC. The two connectors are internally connected in parallel, so supply voltage for the pulse inputs can be obtained from the 2nd connector. The module is supplied from the supply voltage via the internal voltage regulator.

Configuration:

Set the IP address & Time

1. All modules will be shipped with the default IP address '**192.168.17.17**' Connect to the module using a Standard Patch lead. Open 'HyperTerminal' and connect using 'Winsock' or use the 'Telnet' command from the DOS screen.
2. To set the time and date. Example 16:05 on June 12th 2009.
 - a. `settime #16 #05 #00 #12 #06 #09` >enter
 - b. `reset` >enter

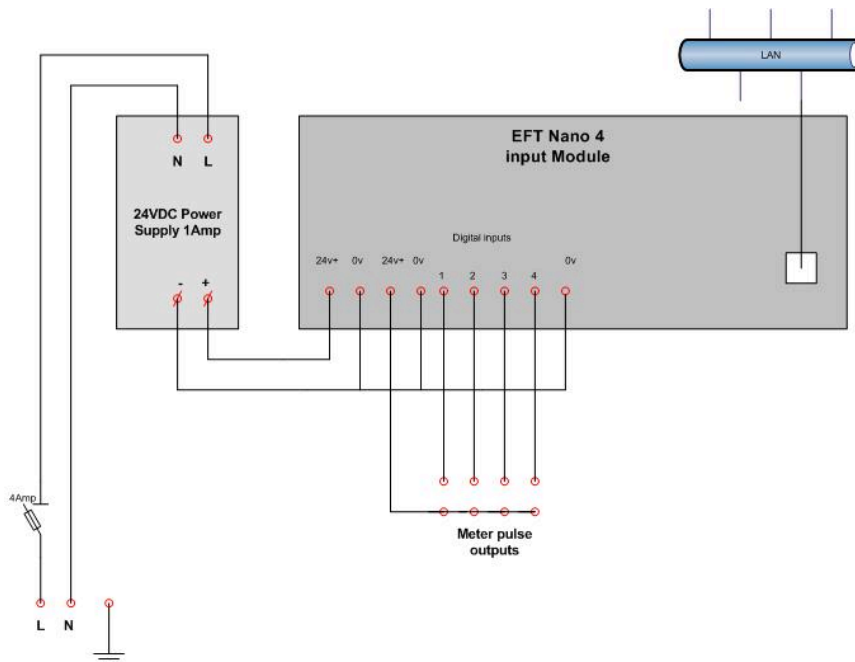
Please Note that times are in 24 hour format
Please Note that dates are in European format

3. To set the IP address, subnet and Gateway, Example 10.0.0.12, Subnet 255.255.255.0 Gw 10.0.0.1
 - a. `Ipset ip "10.0.0.12"` >enter
 - b. `Ipset nm "255.255.255.0"` >enter
 - c. `Ipset gw "10.0.0.1"` >enter
 - d. `Reset` >enter
4. The unit should be formatted before use:
 - a. Type '`format`' >enter
 - b. You will be asked do you want to format. Type 'y' for yes, > enter
 - c. Type '`reset`' >enter

The unit is now ready for use.

Alternatively, connection can be made using a standard 232 Null Modem cable onto serial port '0' connected at 19200 Baud rate.

Electrical Connection Diagram



EFT Nano	File	Optimiser Digital inp vcd	Dwg. No.:	360	Drawn By	Reuben Keogh	Created	01/04/09	Revised	15/07/2009	EFT Control Systems Ltd
					Approved	Lar Carroll	Scale	1:1	Page	1 of 1	