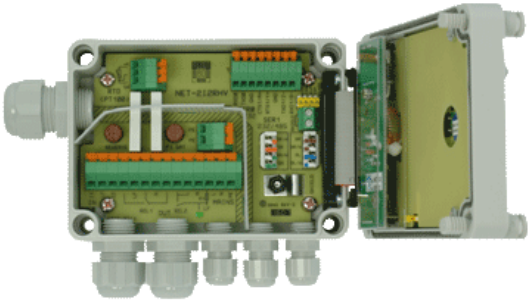
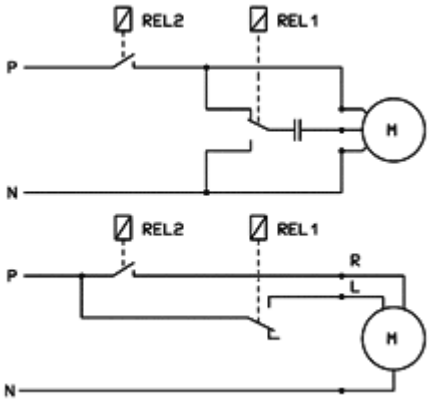
... the far end of Ethernet



- Mains voltage in- and outputs at the Ethernet in an IP65-box
- Digital in- and outputs:
  - 2 filtered inputs for mains alternating voltage 230V
  - 1 relay 5A changer
  - 1 relay 5A closer
- Analog input:
  - Pt100 temperature sensor 3-wire
- Two serial interfaces, see details about hardware and software at ETH-A7-2SER
- nodeAccess for direct I/O-access from Windows®-PCs
- mCAT-Server-Pages (mSP) opens I/O functions for the webbrowser
- Express-I/O access for local tasks, e.g. for socket interfaces
- All terminals over cage clamp
- Insulating plate prevents trackcontact
- Accesses are marked on the insulating plate - clamps are blank for your own inscription
- Interfaces isolated by POE-supply

ethernode® ETH-A7x-2I2RHV offers 2 digital inputs for mains voltage and 2 mains relays for max. 6A at the Ethernet - additionally an exact input for a Pt100 temperature sensor for applications, e.g. as a 2-point-controller or for reversing switches or just in order to switch mains signals. Besides it offers naturally the usual two serial interfaces and the optional LCD. Because of the required isolation the 2I2RHV is offered only for external PoE-supply. This page only points out the special I/Os of the ETH-A7x-2I2RHV. You find the basics at ethernode as well as at ethernode LCD for the LCD version. The details of the serial interfaces of every version is described at ETH-A7x-2SER.

To open and close a cover with a 230V-motor or to regulate the temperature of a tub conveniently - these are standard functions for the ETH-A7-2I2RHV. Without annoying 24V-supply and with integrated Pt100 transducer. Room temperature control and the time based switching on and off of units are other applications.



ETH-A7x-2I2RHV has got 2 digital 230VAC inputs on optocouplers, for easy switches there is "L" available at a clip for the convenient wiring.

The two relay outputs switch 5A Ohm resistive load at 230V (2A at cosφ of 0,4) and they are suited perfectly for motion control because one of the relays is executed as a changer.

Local programming

Local programming in C is required for the application for example as a temperature controller. Thereby it supports our

Order codes:

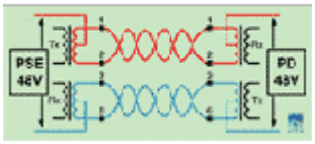
ETH-A7-2I2RHV **369.- € ***

Standard-ethernode A7 with PoE supply. I/O: 1x RS232, 1x RS232/485.

ETH-A7L-2I2RHV **439.- € ***

ethernode A7L with PoE supply. With graphic LCD and membrane keyboard. I/O: 1x RS232, 1x RS232/485

inclusive



supply over PoE

What is PoE (Power-over-Ethernet) remote control? ETH-A7x-2I2RHV has to be feeded by a switch or a rectifier unit over the Ethernet cable.

* all prices in EUR ex works (+VAT/MwSt inside Germany)

mCat real time kernel e.g. with time control and I/O access over functions.

Software

For adressing to the serial interfaces please look at the ETH-A7x-2SER. The inputs and relays are similarly multifaceted adressable:

If you wish an autarc function of ETH-A7-4I4R, you have to programm your application task in C and to load it with the aid of the mCat monitor SYSMON at first into the RAM and later on into the flash on the ethernode-A7-CPU. Process in- and outputs of mCat are available with convenient I/O functions with in(...) and out(...) macros, the so-called Express-I/O. If you want to communicate with other tasks, send and receive messages e.g. of SerDrv for serial periphery. The Ethernet communication usually runs over the Socket-Interface.

You can access all in- and outputs that are supported by Express-I/O directly from a Windows® PC over our *node*Access™-DLL. Therefor no programming on ethernode is required, but though you do not achieve an autonomous functionality in case of a breakdown of the Ethernet

The access to ETH-A7-4I4R over its Web-Interface is very universal. You can design one or more pages with your favourite HTML editor and interlace mSP instructions into these pages. mSP are "mCAT-Server-Pages" instructions that are replaced at the access time by a browser of the mCat webserver by for example the current state value of a digital input. For the relays you have to define buttons or check boxes wherewith the over mSP linked output is switched.

The 4I4R versions of ethernode® and ethernode®LCD respectively can get remote powered by the IEEE802.3af Power-over-Ethernet technologie of course, too. Therefor you only need the corresponding mains adapter.