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RS-485->TCP/IP converter [ethernet]

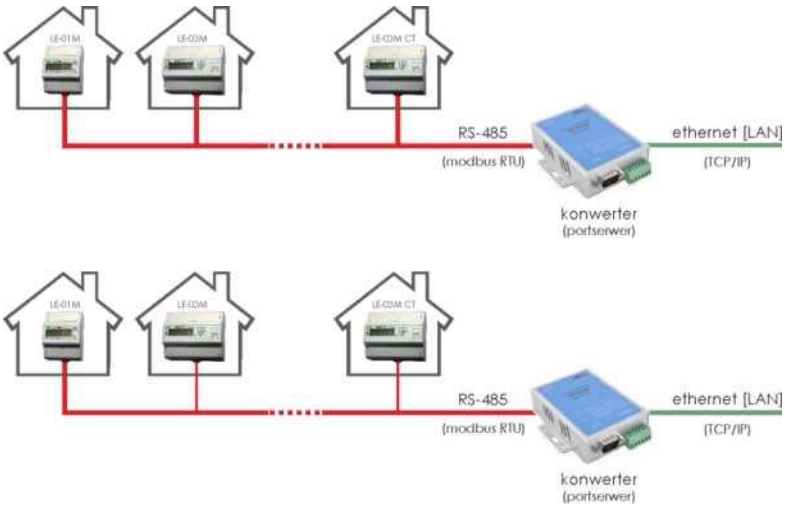
ATC-1000

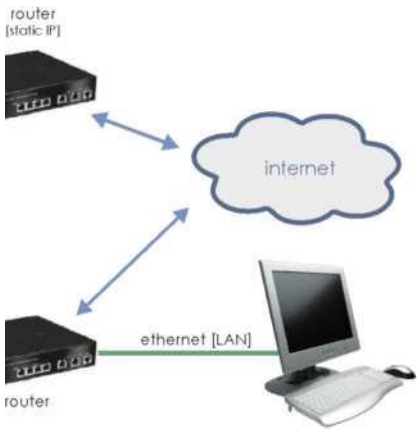
QUICK START
[device configuration for operation with Meternet application]

version 140708PL

PURPOSE

The converter allows access to the serial port RS-485 from any computer on the local network, and by sharing the IP on the Internet - from any computer in the world connected to the Internet. The converter also serves as a serial ports server. Communication takes place via TCP, UDP, DHCP and others protocols. Available software allows you to create a virtual serial port on the PC and to access the serial interface of the ATC-1000 converter connected anywhere on the network just like a local COM port of the computer. This converter has a wide range of power supply: 9÷24 V DC.





CHARACTERISTICS

- DB-9 male socket at RS-232
- Six-clamp terminal for RS-422 and power supply
- RJ-45 Ethernet socket
- Virtual serial port for Windows OS
- 10/100TX network interface
- Support for protocols: TCP/IP, UDP, DHCP
- 9÷24 V DC power supply (socket adapter included)

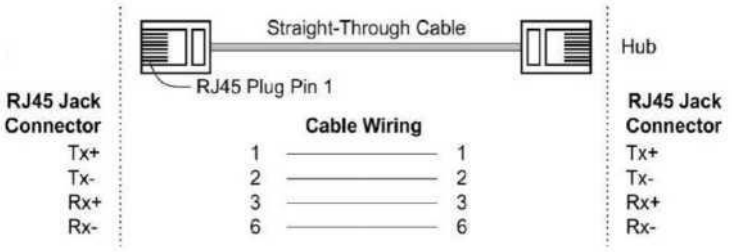
CONSTRUCTION

Converter:
RS-232/422/485 -> TCP/IP
Terminals:

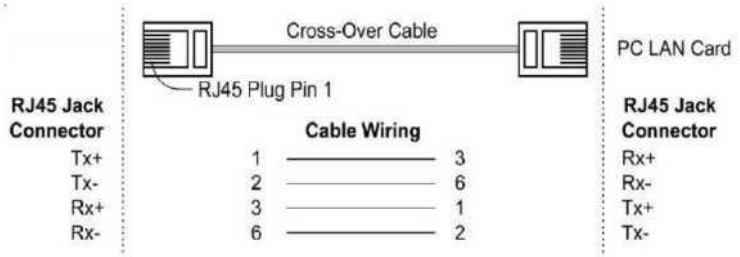
RS-232	DB9 male
RS-422/485	screw terminals 1,0 mm^2
Ethernet	RJ-45
LED indicators:	
Link	Ethernet connection indication [green LED]
ACT	data exchange indication
PWR	9÷24 V DC power supply [500÷1000 mA]
Dimensions:	WxHxD 84x105x26 [mm]

CONNECTION

Configuration 1 (Straight)
Connecting to the LAN through a switch.

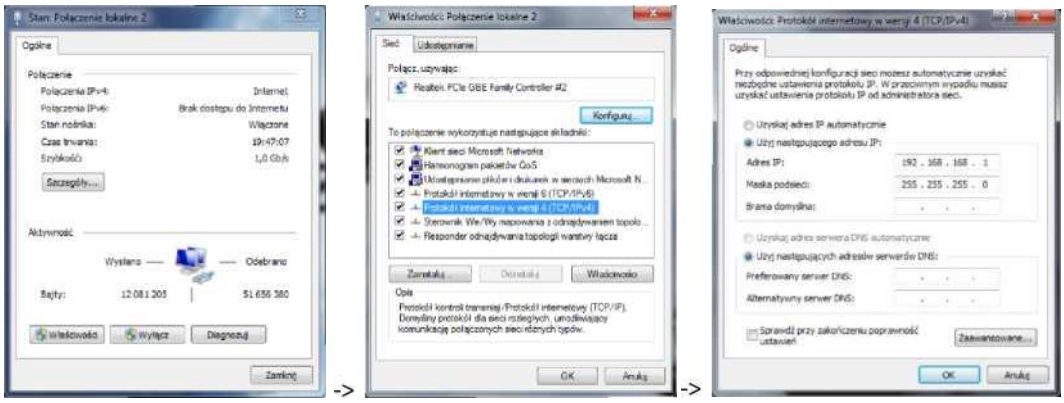


Configuration 2 (Cross-Over)
Direct connection to a PC.



COMMUNICATION

1. Select the connection method - Configuration 1 or 2.
2. Configure the network connection on the PC
   Control Panel-> Network Connections and Sharing-> Local Connections ->

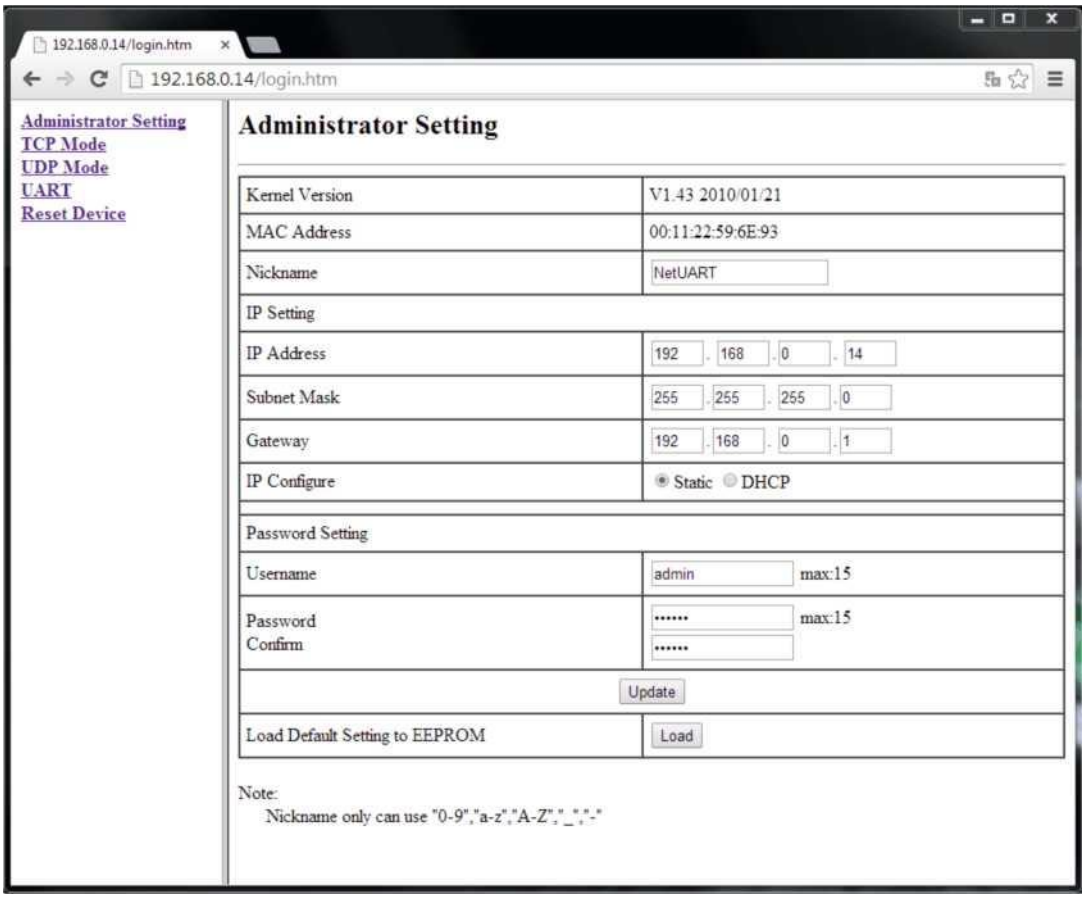


PC settings:
IP address: 192.168.2.2 do 254
Subnet mask: 255.255.255.0
IP address of the converter: 192.168.2.1

3. Open web browser and enter the address of the converter http://192.168.2.1 Press ENTER to accept.
4. The login window opens. Enter the default user name and password.
   User: admin Password: system
5. Converter configuration interface will open in the browser window.

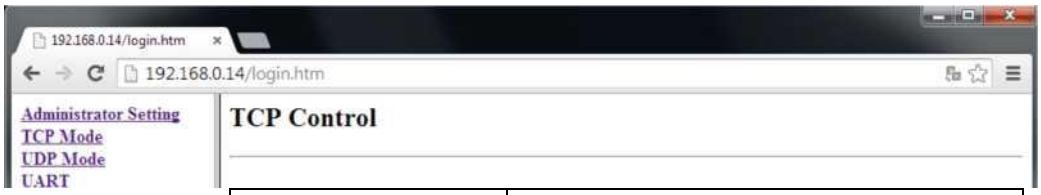
CONFIGURATION
(for cooperation with METERNET system)

Administration Setting - network parameters setting



Nickname:	- device name
IP address	settings of the local network in which the converter will operate
Subnet mask	| When the new address is set and the changes are saved the connection with the converter
Gateway	will be terminated. New connection will be established with the new network settings.
IP Configure	- network connection mode. Select Static
Username	- user name
Password	- password
Update	- configuration changes confirmation
Load Default...	- return to factory settings - press Load

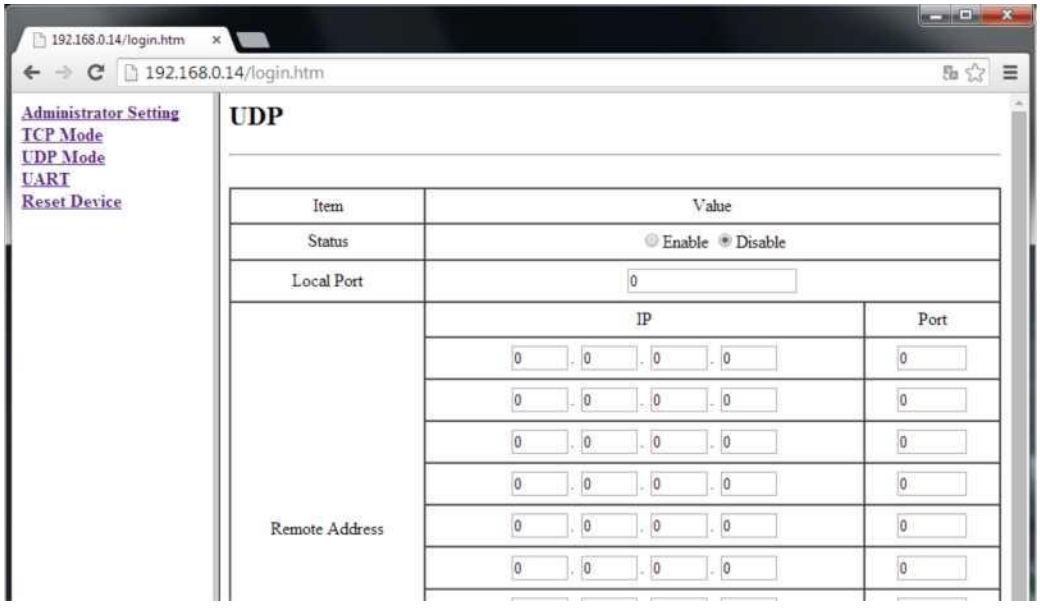
TCP mode - TCP protocol settings



Item	Vahie
Telnet Server Client	® Sen er ® Client Disable
Port Number	[3001
Remote Sen er IP Address	210 .200 |.|181 |.102
Client mode inactive timeout	0 minutę (l~99;0=Disable)
Server mode protect timeout	0 minutę (l—98.0=Disable.99=Can'treplace)
Update	

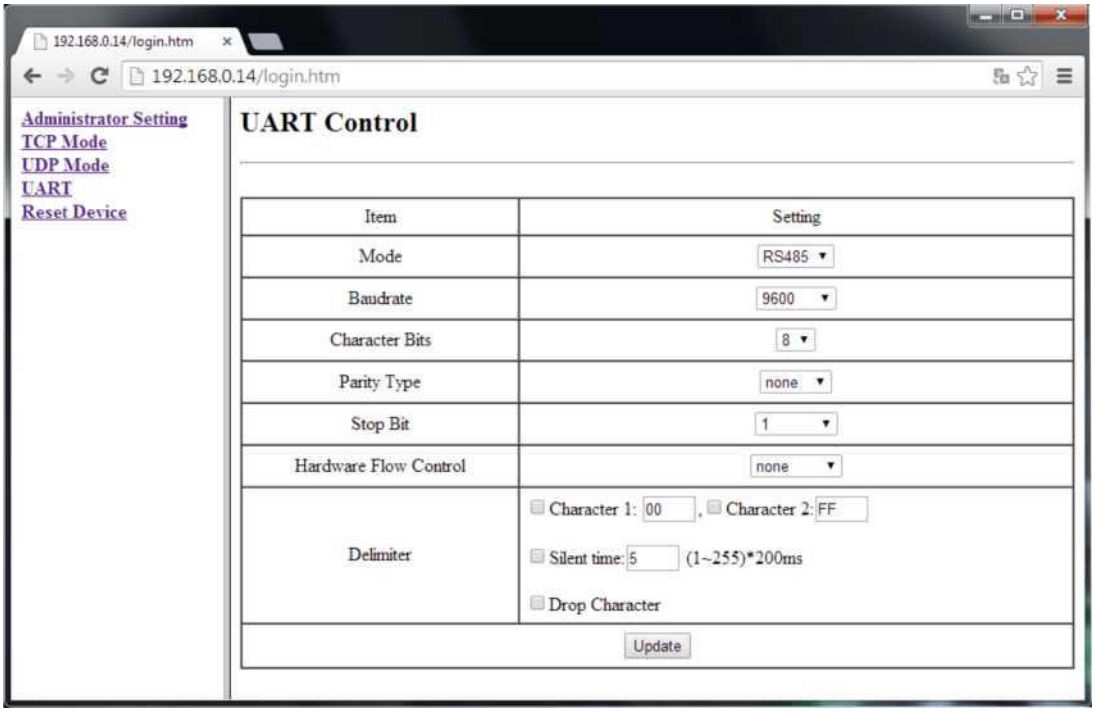
Telnet Server - network connection mode. Select SERVER.
Port Number - number of the converter network port. Set an individual number in a given network
Remote Server IP... - no changes
Client mode. - set to 0
Server mode. - set to 0
Update - configuration changes confirmation

UDP mode - UDP protocol settings



Status Local Port - set to Disable
Remote Address - no settings
Update - no settings
- configuration changes confirmation

UART - Modbus communication settings



Mode - type of modbus communication network. Select RS-485.
Baudrate - modbus transmission rate. Select 9600.
Character bits - data bits. Select 8
Parity Type - parity control. Select NONE.
Stop bits - stop bits. Select 1.
Hardware Flow... - flow control. Select NONE.
Delimiter - other settings - unchanged.
Update - configuration changes confirmation.

CHANGES

When the settings in a given tab are entered, press the Update button.

The message will appear:

Accept changes by pressing the Reset button.
The message will appear:

Press OK.
If the changes are beyond the IP address, the login window will reopen.
If the IP address of the converter has been changed, type the new address in the web browser and evoke the login window.

CONNECTING THE RS-485 NETWORK

Terminal 1: 485+ / A(+)
Terminal 2: 485- / B(-)