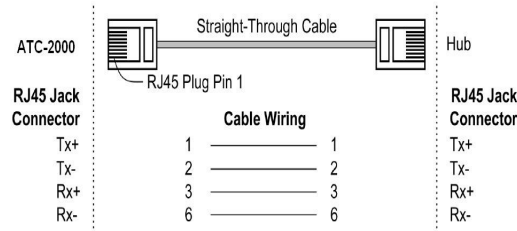




## TCP/IP INTERFACE ATC-1000

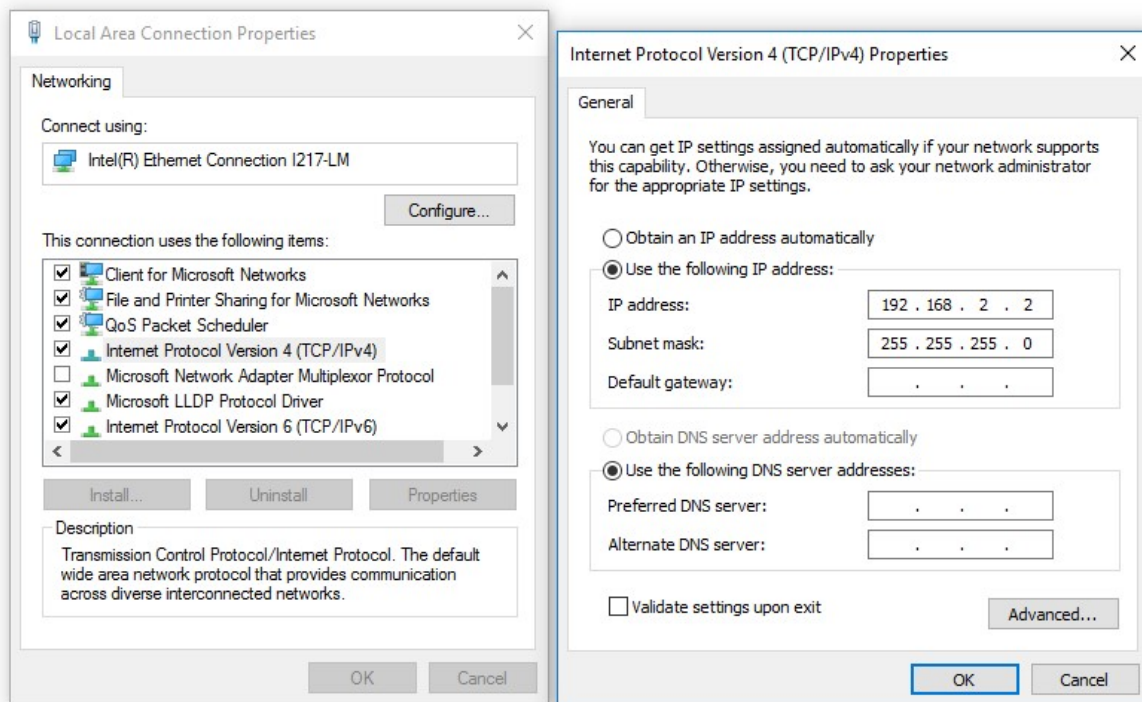
**1. Connect ATC-1000 (TCP/IP to RS232/422/485 Converter) to PC with Ethernet cable RJ45:**



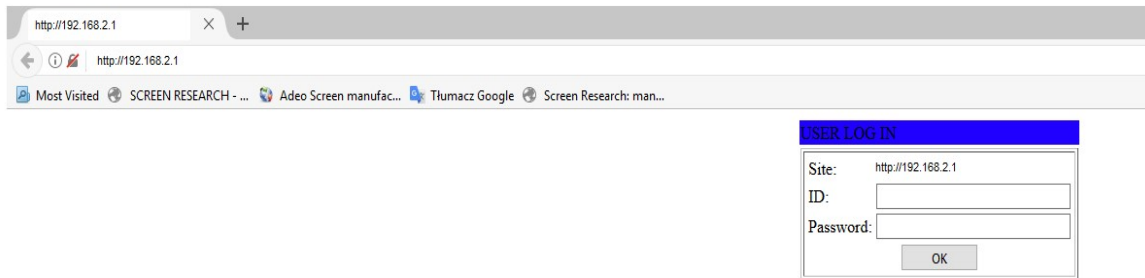
**2. Connect power supply:**  
**ATC-1000 TCP/IP converter can adopt power from DC power supply or device (+9÷+24V@500-100mA).**

**3. Open your web browser and type <http://192.168.2.1> in the browser's *address box*. This address is the factory set IP Address of your ATC-1000. Press "Enter".**  
**Note:**

To be able realize this connection PC must have settled static IP address from range 192.168.2.2 to 192.168.2.254. Network card can be set as follows:



Now PC has fixed IP address 192.168.2.2 from range necessary range, configurable connection <http://192.168.2.1> should be possible to realize:



The Users can change the username and password to prevent unauthorized access. Login ID and password authentication, the maximum is 15 characters and numbers.

User Name: default **admin**  
Password: default **system**

### 1. IP Configuration

The ATC-1000 support three IP connection types: Static IP, DHCP. These types are listed in the Web page for the IP Configuration setting. Each setup screen and available features will differ depending on what kind of IP connection types you select. Default is Static IP. New settings should be save it because after changes communication with ATC will be only possible using new IP address.

Example below:

IP Setting

IP Address	192 . 168 . 10 . 231
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 10 . 1
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DHCP

- [Administrator Setting](#)
- [TCP Mode](#)
- [UDP Mode](#)
- [UART](#)
- [Reset Device](#)

**Administrator Setting**

Kernel Version	V1.44.3.4 2015/06/29	
MAC Address	00:11:22:4D:5E:2D	
Nickname	NetUART	
IP Setting		
IP Address	192 . 168 . 10 . 231	
Subnet Mask	255 . 255 . 255 . 0	
Gateway	192 . 168 . 10 . 1	
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DHCP	
Password Setting		
Username	admin	max: 15
Password	*****	max: 15
Confirm	*****	
<input type="button" value="Update"/>		
Load Default Setting to EEPROM	<input type="button" value="Load"/>	

Note:  
Nickname only can use "0-9","a-z","A-Z","\_","-"

Save settings – click “Update”.

### 5. TCP Settings

Communication rules are: client (master) it sent commands and server (slave) will realize it.

If ATC-1000 will be installed near the distance of control system and used for remote control then you can set ATC-1000 as server.

Be sure the value of item **Port Number** is same as your remote control application using. **Port Number:** default 23, range 0 to 65535.

- [Administrator Setting](#)
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TCP Control	
Item	Value
Telnet Server/Client	<input checked="" type="radio"/> Server <input type="radio"/> Client <input type="radio"/> Disable
Port Number	<input type="text" value="23"/>
Remote Server IP Address	<input type="text" value="210"/> <input type="text" value="200"/> <input type="text" value="181"/> <input type="text" value="102"/>
Client mode inactive timeout	<input type="text" value="20"/> minute (1-99,0=Disable)
Server mode protect timeout	<input type="text" value="60"/> minute (1-99,0=Disable,99=Can't replace)
<input type="button" value="Update"/>	

Save settings – click “Update”.

### 6. UART Settings (control by RS-232)

In this window we set information about communication settings with serial port. The ATC-1000 support three serial types: RS232, RS422 and RS485, The user can reference hardware diagram to directly select RS232, RS422, RS485, no need select by software.

- [Administrator Setting](#)
- [TCP Mode](#)
- [UDP Mode](#)
- [UART](#)
- [Reset Device](#)

UART Control	
Item	Setting
Mode	<input type="text" value="RS232"/>
Baudrate	<input type="text" value="19200"/>
Character Bits	<input type="text" value="8"/>
Parity Type	<input type="text" value="none"/>
Stop Bit	<input type="text" value="1"/>
Hardware Flow Control	<input type="text" value="none"/>
Delimiter	<input type="checkbox"/> Character 1: <input type="text" value="00"/> <input type="checkbox"/> Character 2: <input type="text" value="FF"/> <input type="checkbox"/> Silent time: <input type="text" value="5"/> (1-255)*50ms <input type="checkbox"/> Drop Character <input checked="" type="checkbox"/> Multi-Packet
<input type="button" value="Update"/>	

Save settings – click “Update”.

### 7. Test

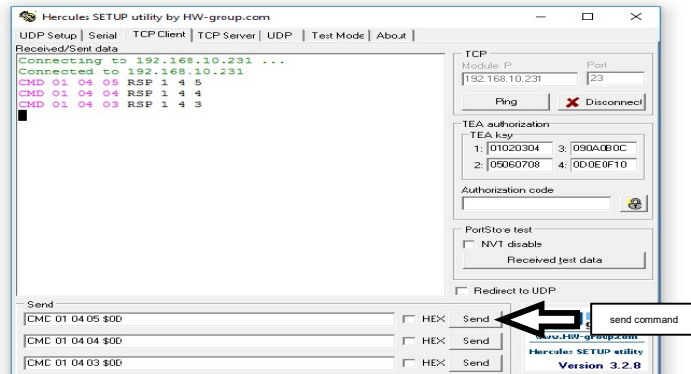
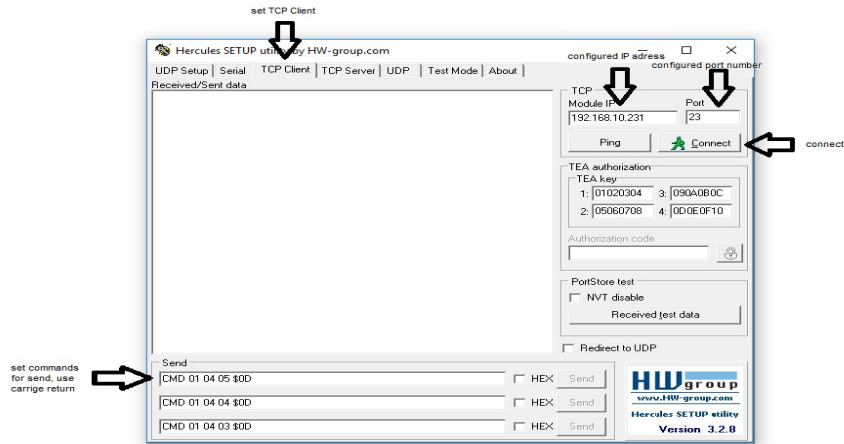
**Disconnect RJ45 cable from PC and connect it to your local network.**



Download free software which is available for free download on below link:

[http://www.hw-group.com/products/hercules/index\\_en.html](http://www.hw-group.com/products/hercules/index_en.html)

Sample show how ATC-1000 is configure in network to work with control system MCS-N-IP:



## 7. Specifications:

Serial Interface		
Interface Type	RS-232/485/422 3 in 1 (optional)	
Data Rate	300bps ~ 230.4Kbps	
Data Length	5,6,7,8 bits	
Parity	Odd, Even, None, Space, Mark	
Stop Bits	1, 1.5, 2 bits	
Flow Control	None, Software: Xon/Xoff, Hardware: RTS/CTS	
Connector	RS-232	DB-9 male
	RS-485/422	6-pin Terminal block
Serial Line Protection	600W for RS-232, 1000W for RS-485/422	
Network Interface		
Interface Type	Ethernet 10/100Mbps (Auto-Sensing)	
Connector	8-pin RJ-45	
Magnetic Isolation Protection	Built-in 1.5KV	
Software		
Network Protocols	ICMP,IP,TCP,UDP,DHCP,BOOTP,Telnet,DNS,HTTP,ARP	
Configure Options	Web Page,Windows Utility	
OS support	Windows95/98/ME/NT/2000/XP/2003/WIN7/WIN8/XP x64/2003 x64/WIN7 x64/WIN8 x64, Linux real, TTY, UNIX	
LED Indicators	LINK	10/100Base-TX Link & Activity Indicator
	ACT	Date Transmitting between Serial and Ethernet
	PWR	Power indicator
Power Supply	9~32VDC@1A	
Physical Characteristics		
Installation	DIN-Rail Mounting	
Housing	Iron (1mm)	
Weight	0.5Kg	
Dimensions	Without ears	100 × 67 × 26 mm(3.94 × 2.64 × 1.02 in)
	With ears	100 × 86 × 26 mm(3.94 × 3.39 × 1.02 in)
Environmental Limits		
Operating Temperature	-25 ~ 70°C (-13 ~ 158°F)	
Storage Temperature	-40 ~ 85°C (-40 ~ 176°F)	
Ambient Relative Humidity	5% to 95%(non-condensing)	
Standards and Certifications		
RoHS, CE, FCC		

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