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Achim Bentele

Direct PC – AHF connection via Ethernet cable (TCP/IP)
Knowledge base information

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1 PC - AHF connection via Ethernet (TCP/IP)

This document describes how to connect your PC/Laptop to ECOsine® active by using Ethernet (TCP/IP) connection cable.

After this connection is set-up once, commissioning, parameterization and further diagnostics can be done by using the PC operating program “AHF Viewer”.

Download of firmware to ECOsine® active is only possible with RS485 connection. **Firmware-update via Ethernet (TCP/IP) is not supported.** More details can be found in Knowledge base ECOsine active No001 - firmware Versions and Download and the ECOsine® active operating and installation instructions, section 6 “AHF Viewer - PC operating program”.

2 Description of Ethernet cable

For direct connection between ECOsine® active and your PC, please use following patch cable.

1. Ethernet cable, straight through (1:1) connection

2. 8P8C connector (often called “RJ45” connector)
3 Description of PC - network connection settings

Following settings have to be made in windows operating system:

1. Checkmark Internet protocol (TCP/IP)
   >>> start >>> control panel >>> network and internet connections >>> network connections >>> properties >>> internet protocol (TCP/IP)
   → Please checkmark Internet protocol (TCP/IP)

2. Set IP-address, subnet mask and standard gateway
   … >>> internet protocol (TCP/IP) >>> properties
   → Please checkmark Use the following IP address
   → Please set IP-address to 192.168.1.1 (must be different from parameter P240, user manual)
   → Please set subnet mask to 255.255.255.0 (must be equal to P242, user manual)
   → Please confirm with OK-button
3. Return to ECOsine® active
   → Please set Parameter P241 to DHCP=OFF
   → Please set Parameter P240 to 192.168.1.2 (factory setting)

4. Return to ‘AHF-Viewer’
   >>> Connection  >>> Settings…
   → Please checkmark connection type Modbus TCP
   → Please set IP-address to 192.168.1.2

5. Connect to ECOsine® active
   >>> Connection  >>> Connect to device

6. After commissioning ECOsine® active
   … >>> internet protocol (TCP/IP)  >>> properties
   Please reset all network connection settings of your PC to the previous values!

Generally the Internet Protocol (TCP/IP) Properties will be set to: Obtain an IP address automatically