





## Meteo-40 Data Logger – Communication & Data Transfer

### Communication Methods and Required Devices

Meteo-40 data loggers offer various methods for data transfer and communication. All available methods are commonly used as well as easy to handle and to configure. Additional devices are necessary to set up the connections, e.g. W-LAN USB stick or modem.

### Accessing the Meteo-40 web interface via tunnel server

Meteo-40 can be connected directly to a tunnel server to obtain a unique subdomain. This way the GSM modem can be equipped with a standard SIM card with dynamic IP address. The tunnel server manages the subdomains. Users access the Meteo-40 web interface (when online) by entering its subdomain, e.g. <https://Dxxxxxx.tunnel.ammonit.com>

Method \ Action	Configuration	Software Update	Automatic Data Transfer	Manual Data Transfer	Access via Tunnel Server	Required Devices	Recommended Application	Comment
Meteo-40 (Stand-alone)	no <ul style="list-style-type: none"> <li>only a few settings can be changed</li> </ul>	no	no	no	no		Only testing purposes.	
USB memory stick	no	no	no	yes <ul style="list-style-type: none"> <li>Download on pre-configured USB memory stick</li> </ul>	no	Pre-configured USB memory stick 	Backup download.	Manual data download on pre-configured USB memory stick.
LAN	yes	yes <ul style="list-style-type: none"> <li>Internet access required</li> </ul>	yes <ul style="list-style-type: none"> <li>Email</li> <li>FTP/SCP</li> <li>AmmonitOR</li> </ul>	yes <ul style="list-style-type: none"> <li>Download via web interface</li> </ul>	yes <ul style="list-style-type: none"> <li>Internet access required</li> </ul>		Preferred method for configuration and software update.	The easiest method for initial configuration and software updates. A DHCP server in your LAN is recommended.
W-LAN	yes	no	no	yes <ul style="list-style-type: none"> <li>Download via web interface</li> </ul>	no	USB W-LAN stick 	Maintenance on site.	USB W-LAN stick has to be configured in the web interface prior to the usage on site.
Ethernet (point-to-point)	yes	no	no	yes <ul style="list-style-type: none"> <li>Download via web interface</li> </ul>	no		Backup access.	PC and data logger have to be configured.
USB (A/B)	yes	no	no	yes <ul style="list-style-type: none"> <li>Download via web interface</li> </ul>	no	USB A/B cable and driver file 	Backup access.	For Windows™ PCs a driver file is required. It can be downloaded from the Ammonit website.
Modem (GSM / Radio Directional / Satellite)	yes	yes <ul style="list-style-type: none"> <li>Internet access required</li> </ul>	yes <ul style="list-style-type: none"> <li>Email</li> <li>FTP/SCP</li> <li>AmmonitOR</li> </ul>	yes <ul style="list-style-type: none"> <li>Download via web interface</li> </ul>	yes	Modem 	Remote access during a measurement campaign.	Thanks to the tunnel server design a standard SIM card can be used in a GSM modem. Tunnel server manages IP addresses. SIM card with static IP address is not necessary.
SCADA over RS485 (Modbus RTU)	no	no	yes <ul style="list-style-type: none"> <li>Modbus protocol</li> </ul>	yes	no		SCADA	Modbus register map has to be configured.
SCADA over Ethernet (Modbus TCP/IP)	no	no	yes <ul style="list-style-type: none"> <li>Modbus protocol</li> </ul>	yes	no		SCADA	Modbus register map has to be configured.

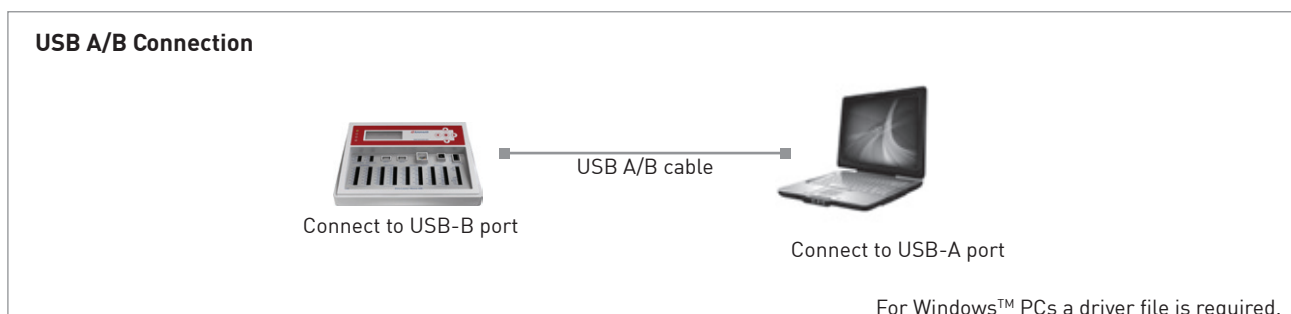
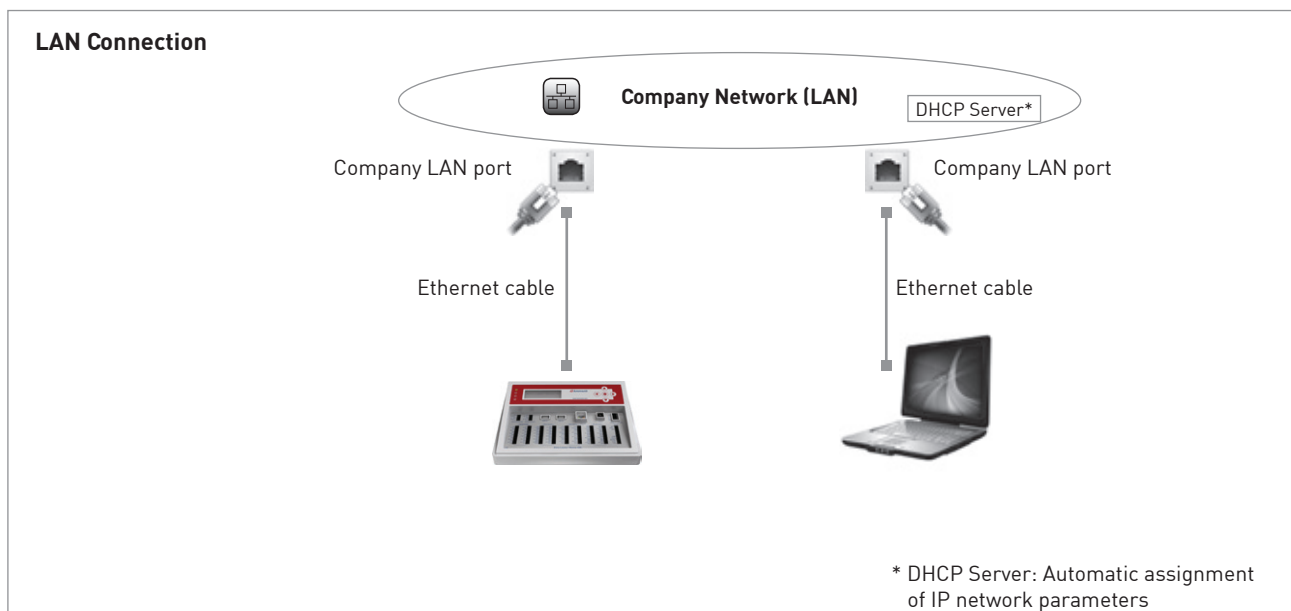
## Meteo-40 Data Logger – Communication & Data Transfer

### Accessing the web interface of Meteo-40

The Meteo-40 web interface offers all available configuration options and is recommended for the configuration of the data logger. In order to access the web interface, it is necessary to establish a TCP/IP connection between Host PC and Meteo-40. Thanks to the web interface, Meteo-40 can also be operated via Internet with mobile devices, i.e. smartphone, tablet PC.

The easiest way is to connect the data logger to your LAN (Local Area Network). We recommend a DHCP server, which automatically assigns IP network parameters to connected devices, e.g. Meteo-40 data loggers. Usually a DHCP server is part of a LAN. If not, please ask your system administrator to assign a fixed IP address to the data logger (Meteo-40 has to be configured to use a fixed IP address). Another option is to establish a point-to-point connection between your PC and Meteo-40 via USB using a standard USB 2.0 A/B cable.

### Accessing the web interface for configuration purposes



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## Accessing the web interface during a measurement campaign or on site

