

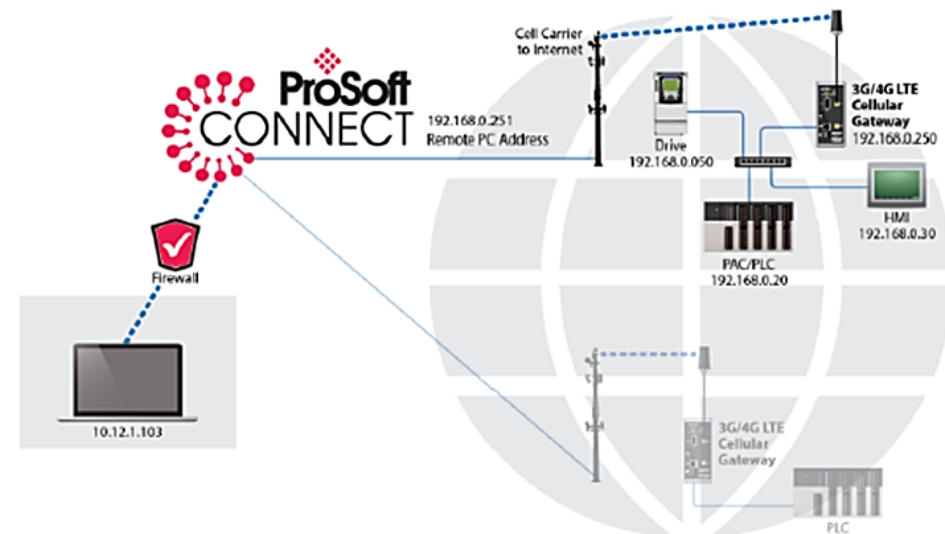
# Remote Maintenance Unit

**Problem:** Systems with complex control systems often have to be looked after by two specialists when under maintenance. To analyze a malfunction there is usually a need for mechanics and control specialists. Complex service calls could often be avoided if the in-house control specialist was able to analyze the function of the system. Normally IT security regulations at the plant do not allow a direct online connection of the systems to the Internet.

**EMCO WHEATON and our partner provide a solution:**

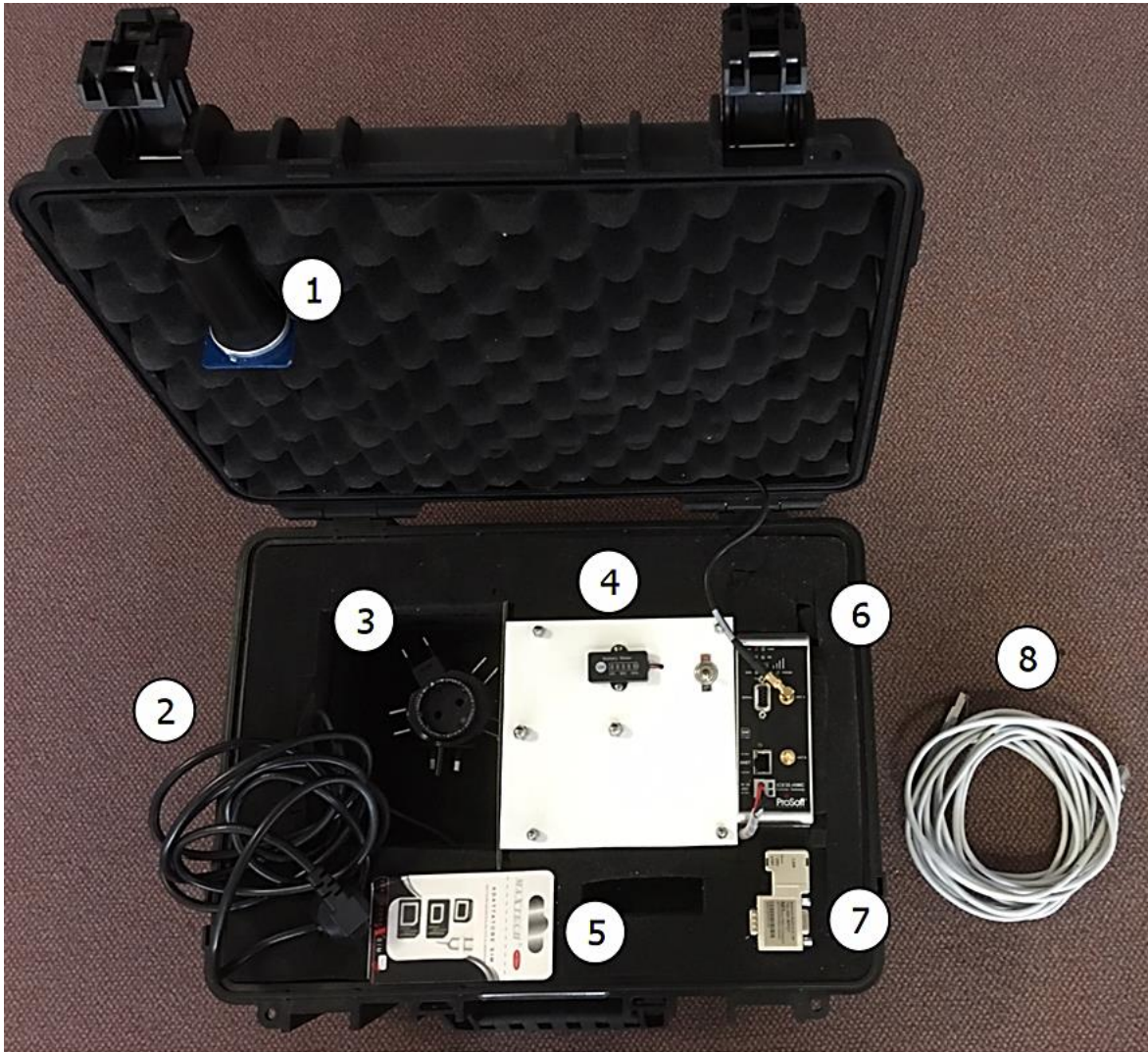
A Remote Maintenance Unit that allows a completely independent connection to the computer of the control specialist in Germany. All you need is a mobile phone SIM card to make the data connection.

- The tool is independent of internet access; connection is made via its own mobile radio connection.
- The power supply is secured by an integrated battery. The battery is approved for transport in aircraft.
- The customer's data security is guaranteed because the tool is connected to the system only as long as the service requires connection.
- No changes are necessary to the systems. There are no additional components installed in the system.
- All systems with a corresponding interface can be operated with one tool.
- Control systems from different manufacturers can be operated with only one tool.
- A direct connection is established between the system and the computer of the control specialist. No additional software is required.
- There are no ongoing royalties.
- Very easy handling of the system, local engineers can handle it after a short instruction.



In a box a Remote Maintenance module is installed. The box is designed for rough use on construction sites. Splash proof and shock proof. As soon as the Remote Maintenance box is connected to the system and switched on, the Remote Maintenance module establishes a radio connection to the Internet. The unit connects to the data center of ProSoft CONNECT via a VPN tunnel by a fixed IP address. Here the service employee from Germany can dial in. Only he has exclusive access to the data connection via the access data. Using the ProSoft Connect server, service personnel can help from anywhere in the world, even though they are currently travelling the world on a different service. The encryption of the data and the transmission via VPN tunnel offer maximum protection against unauthorized access.

# Remote Maintenance Unit



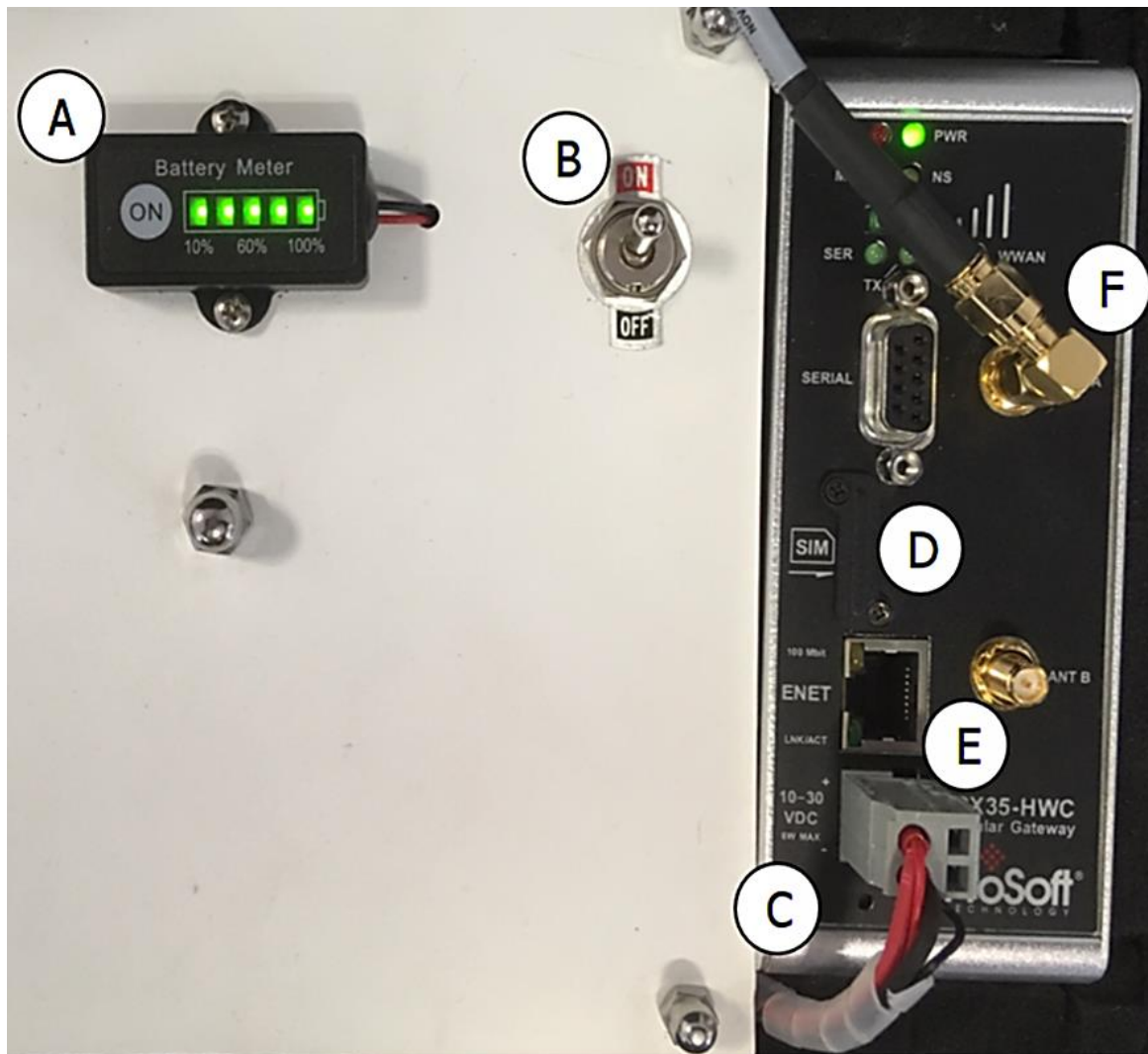
## EQUIPMENT

**Dimensions:** 36 cm x 47 cm x 20 cm

**Weight:** 7.1 kg

1. GSM antenna
2. Power supply cable with "Schuko" plug
3. Plug adaptor for international connections
4. Power supply battery with charge level indicator
5. SIM card adaptor
6. Remote Maintenance Unit
7. PROFIBUS adaptor for connection to the PLC
8. LAN cable

# Remote Maintenance Unit



## CONTROLS

- A. Battery charge status indicator
- B. Main power switch
- C. Power supply to Remote Maintenance module
- D. SIM card slot
- E. LAN port
- F. GSM antenna connection



# Remote Maintenance Unit

- The unit is **ready for use** as soon as a **GSM SIM card** is inserted. The card must not be protected with a PIN code!
- A standard SIM is necessary. So, an adaptor kit (item 5) is included in the box to use e.g. the SIM card of your phone.
- Turning on the power supply by switch “C” turns on the unit.
- The Remote Maintenance module connects to the wireless network and establishes a data connection to the server.
- The quality of the radio connection can be read on the LED display WWAN.
- By using the LAN cable (item 8), the controller is connected to the Remote Maintenance module. If the PLC has no Ethernet connection, an adaptor (item 7) is used.
- If necessary, the settings of the Remote Maintenance module and / or the adaptor (item 7) can be changed in Remote Maintenance control.
- The charge status of the battery is displayed when the switch on display “A” is pressed. The battery charge state can also be turned on while the main switch “B” is OFF.
- **Please do not disconnect the connectors “F” and “C”**, the box can also be closed with inserted connections.
- To **charge the battery**, connect the mains plug (item 2) to the national grid. The built-in power supply is suitable for all common voltages and frequencies. Possibly use the mains adaptor (item 3) if the Schuko plug does not fit into your standard sockets.

