

Network interface type CS141

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1. FEATURES

- **High-Tech made in Germany and in the USA**

ARM Cortex A8 processor, 1 Gbit auto-sensing Ethernet. The "Industrial" version of the device is available with RS485.

- **Graphical interfaces**

Several options are available for monitoring and configuring the CS141: internet browsers, UNMS and every type of SNMP, MODBUS and BACnet management system. The statistical analysis of all connected devices are graphically shown through the web browser. These statistics show the values of the UPS and all connected external devices like temperature, humidity, etc. Firmware updatable via drag & drop.

- **Data logging**

Measurement values and alarms are written with time stamps into the non-volatile storage of the CS141 adapter. The time synchronization function through NTP insures that all data are written with precise time values.

- **Scheduler**

Web server based scheduler allows scheduled on/off of the UPS, send shutdown commands or start battery tests. This secures that the UPS runs regularly battery tests and informs the user about problems via email, log file, etc.

- **Email**

The integrated email client via SMTP can be configured to relay either all or only specific messages. The email client can use public email servers and local email servers to distribute the information.

- **Email Trap for UNMS Remote Monitoring Software**

Every CS141 can send its data packages via "Email Trap" to the UNMS Software (when it's equipped with TELESERVICE optional module). Thereby you can arrange a remote monitoring via email, without compromising the customers network security systems. All measuring values and graphics are visible on the UNMS at any time.

- **Multi Server Shutdown**

Unlimited shutdown manager for RCCMD clients - for more than 40 different operating systems. This makes it possible for a CS141 adapter to inform and shutdown any type of computer in a given network which can then be used to centralize the administration of large networks while greatly reducing both the amount of administrative work and the amount of network traffic.

- **Network Services**

The CS141 supports SNMP v2 and v3, IPv4 and IPv6, HTTP, HTTPS, DNS, DHCP, SMTP, NTP, UPSTCP (UNMS), MODBUS over IP, MODBUS over RS232/485, RCCMD (Multiserver and Multi-OS shutdown / messaging tool) BACnet IP, Wake ON-LAN.

- **SNMP v2 and v3**

The CS141 supports the RFC1628 MIB (standard UPS MIB) and MIB extensions for use with the temperature/humidity sensors and with the SensorManager II device. This enables the CS141 adapter to make all of its gathered information from other devices available via SNMP. All SNMP based network management systems are supported.

- **MODBUS**

All of the CS141 adapters are equipped with MODBUS over IP, which enables the CS141 to incorporate PLC devices or any other MODBUS based management system.

The "Professional" version also provide MODBUS RS232.

The "Industrial" version also provide MODBUS RS485.

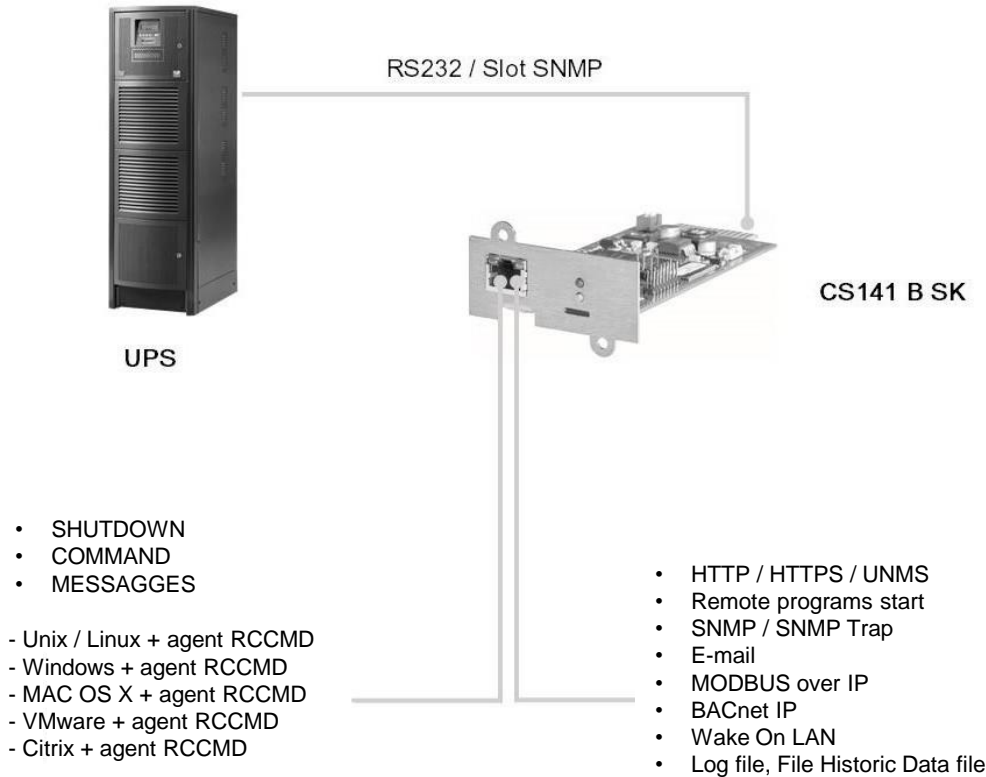
- **BACnet**

All CS141 adapters support the BACnet over IP protocol, which allows the UPS to integrate seamlessly into any BMS management system.

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2. FUNCTION OVERVIEW OF THE CS141 STANDARD



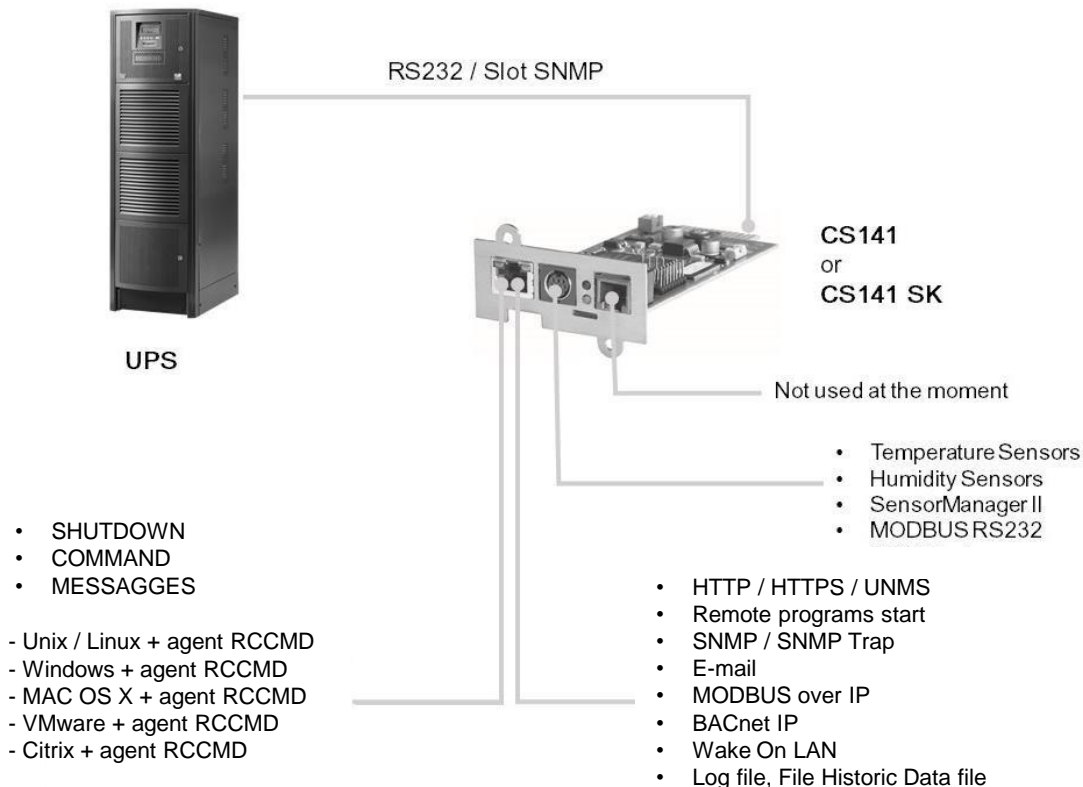
3. TECHNICAL DATA OF THE CS141 STANDARD

Technical data	CS141B SK (internal version)
Power supply	150 mA 12V (min. 9V, max 30 V DC), 150 mA
Size (W x D x H)	60 x 120 x 29 mm, 66 g
Ethernet	1 Gbit Base-T auto sense
Status LEDs	Normal green, boot/error red
RS232 Interface	1
USB Interface	-
MODBUS over IP	Yes
SNMPMIB support	MIB RFC 1628 and private extensions
BACnet IP	Yes
Operating temperature	0 + 70 °C
Storage temperature	0 + 70 °C
Max. recommended ambient temperature	55 °C
Humidity	20 + 95 °C, non condensing
CPU	ARM Cortex A8 800 MHz
Flash memory	512 MB
RAM memory	128 MB DDR3
Certifications	CE, UL / NEMKO

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2. FUNCTION OVERVIEW OF THE CS141 PROFESSIONAL



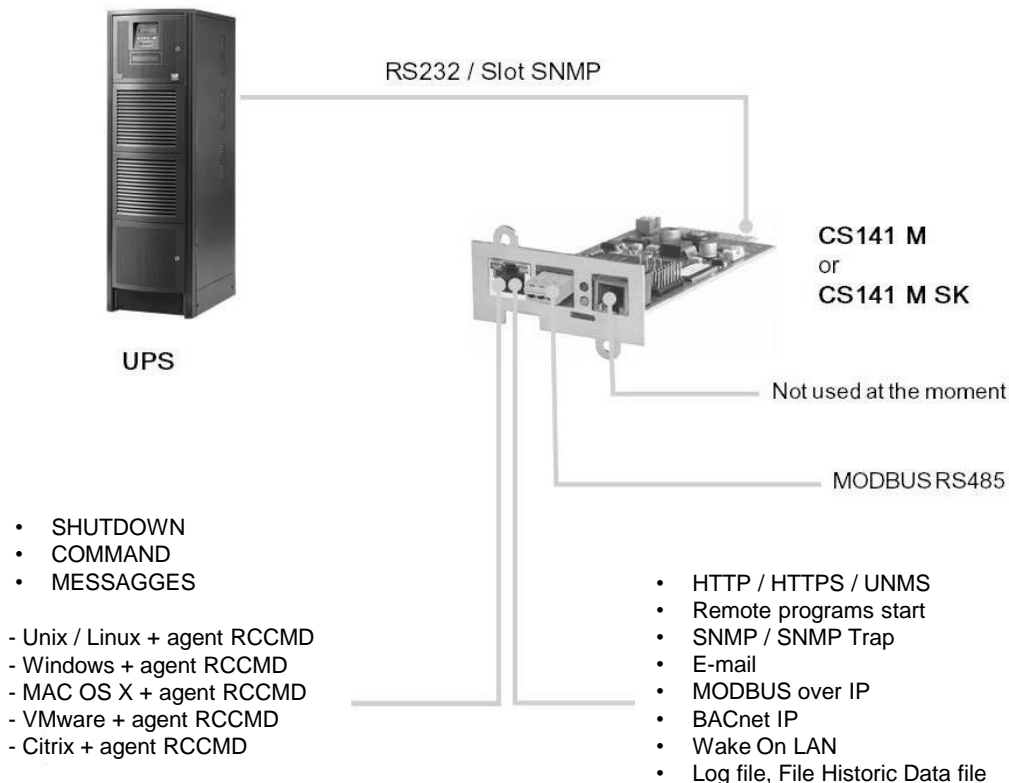
3. TECHNICAL DATA OF THE CS141 PROFESSIONAL

Dati Tecnici	CS141 (external version)	CS141 SK (internal version)
Power supply	12V (min. 9V, max 30 V DC), 150 mA	12V (min. 9V, max 30 V DC), 150 mA
Size (W x D x H)	69 x 126 x 35 mm, 210 g	60 x 120 x 29 mm, 66 g
Ethernet	1 Gbit Base-T auto sense	1 Gbit Base-T auto sense
Status LEDs	Normal green, boot/error red	Normal green, boot/error red
RS232 Interface	2	2
USB Interface	1	-
MODBUS over IP	Yes	Yes
SNMPMIB support	MIB RFC 1628 and private extensions	MIB RFC 1628 and private extensions
BACnet IP	Yes	Yes
Operating temperature	0 + 70 °C	0 + 70 °C
Storage temperature	0 + 70 °C	0 + 70 °C
Max. recommended ambient temperature	55 °C	55 °C
Humidity	20 + 95 °C, non condensing	20 + 95 °C, non condensing
CPU	ARM Cortex A8 800 MHz	ARM Cortex A8 800 MHz
Flash memory	512 MB	512 MB
RAM memory	128 MB DDR3	128 MB DDR3
Certifications	CE, UL / NEMKO	CE, UL / NEMKO

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2. FUNCTION OVERVIEW OF THE CS141 INDUSTRIAL



3. TECHNICAL DATA OF THE CS141 INDUSTRIAL

Dati Tecnici	CS141M (external version)	CS141M SK (internal version)
Power supply	12V (min. 9V, max 30 V DC), 150 mA	12V (min. 9V, max 30 V DC), 150 mA
Size (W x D x H)	69 x 126 x 35 mm, 210 g	60 x 120 x 29 mm, 66 g
Ethernet	1 Gbit Base-T auto sense	1 Gbit Base-T auto sense
Status LEDs	Normal green, boot/error red	Normal green, boot/error red
RS232 Interface	1	1
RS485 Interface	1	1
USB Interface	1	-
MODBUS over IP	Yes	Yes
SNMPMIB support	MIB RFC 1628 and private extensions	MIB RFC 1628 and private extensions
BACnet IP	Yes	Yes
Operating temperature	0 + 70 °C	0 + 70 °C
Storage temperature	0 + 70 °C	0 + 70 °C
Max. recommended ambient temperature	55 °C	55 °C
Humidity	20 + 95 °C, non condensing	20 + 95 °C, non condensing
CPU	ARM Cortex A8 800 MHz	ARM Cortex A8 800 MHz
Flash memory	512 MB	512 MB
RAM memory	128 MB DDR3	128 MB DDR3
Certifications	CE, UL / NEMKO	CE, UL / NEMKO