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Network interface
type CS141

3 109 30 - 3 109 31 - 3 109 32 -
3 109 33 - 3 109 34 - 3 109 35

CS141 Standard | CS141 Professional | CS141 Industrial

3 109 33 – CS141B | 3 109 32 – CS141 | 3 109 34 – CS141M

3 109 31 – CS141B SK | 3 109 30 – CS141 SK | 3 109 35 – CS141M SK

1. FEATURES

• **High-Tech made in Germany and in the USA**
ARM Cortex A8 processor, 10/100 Mbit 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 II 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 output, 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 II Remote Monitoring Software**
Every CS141 can send its data packages via "Email Trap" to the
UNMS II 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 II 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, SFTP, UPSTCP (UNMS),
MODBUS over IP, MODBUS over RS232/485 and 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/humiditysensors 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
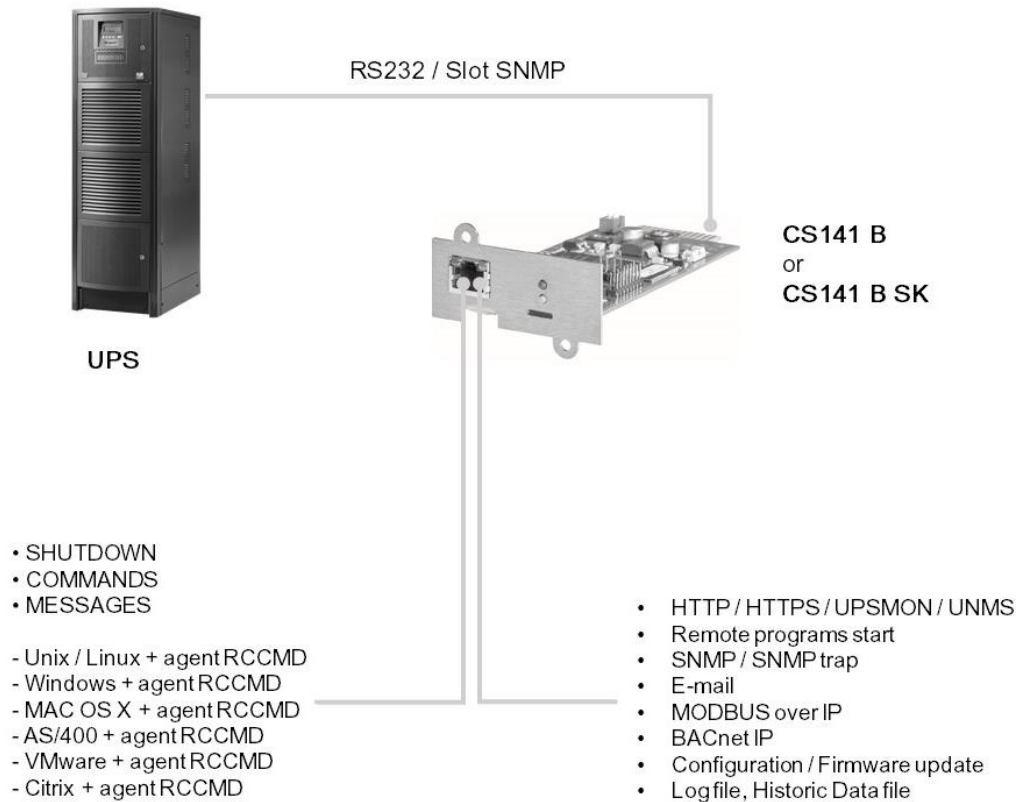management system..

• **GSM Modem**
Support for GSM modem through COM2 for transmitting alarm
messages (SMS).

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3 109 33 - 3 109 34 - 3 109 35**
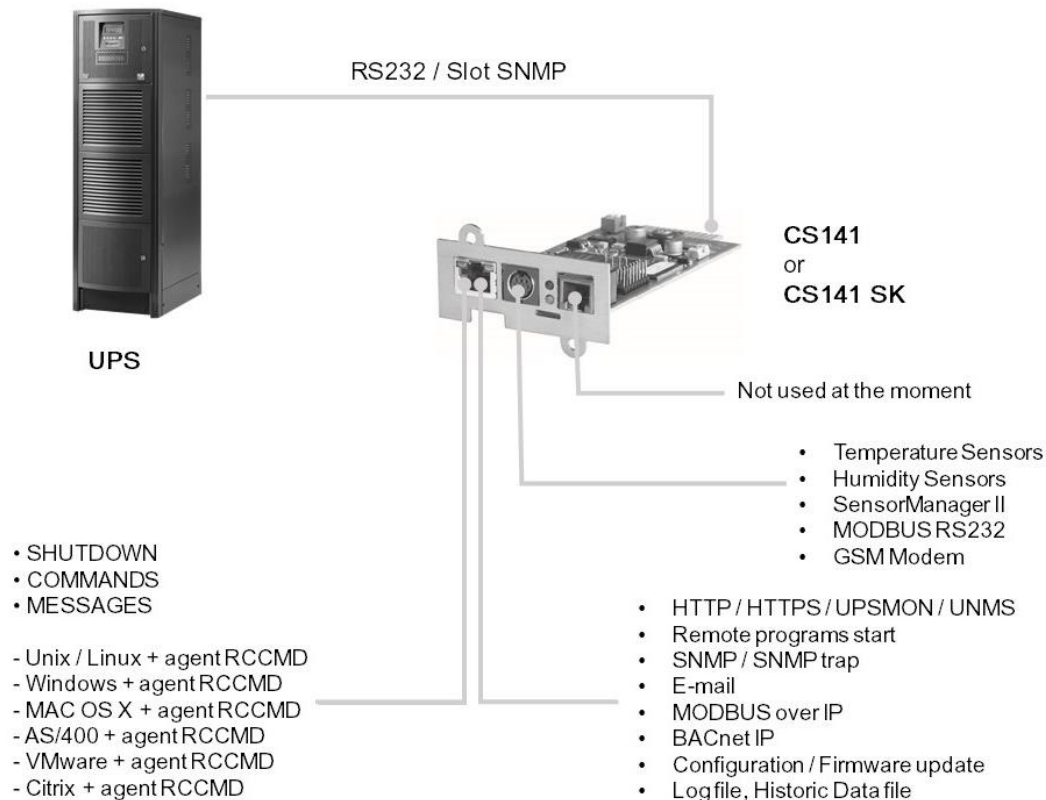
2. FUNCTION OVERVIEW OF THE CS141 STANDARD

RS232 / Slot SNMP

CS141 B
or
CS141 B SK

UPS

- SHUTDOWN
- COMMANDS
- MESSAGES

- Unix / Linux + agent RCCMD
- Windows + agent RCCMD
- MAC OS X + agent RCCMD
- AS/400 + agent RCCMD
- VMware + agent RCCMD
- Citrix + agent RCCMD

- HTTP / HTTPS / UPSMON / UNMS
- Remote programs start
- SNMP / SNMP trap
- E-mail
- MODBUS over IP
- BACnet IP
- Configuration / Firmware update
- Log file, Historic Data file

3. TECHNICAL DATA OF THE CS141 STANDARD

Technical data	CS141B (external version)	CS141B 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)	Weight 69 x 126 x 35 mm, 210 g	60 x 120 x 29 mm, 66 g
Ethernet	10/100 Mbit Base-T auto sense	10/100 Mbit Base-T auto sense
Status LEDs	Normal green, boot/error red	Normal green, boot/error red
RS232 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

Network interface

type CS141

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3 109 33 - 3 109 34 - 3 109 35

2. FUNCTION OVERVIEW OF THE CS141 PROFESSIONAL

RS232 / Slot SNMP

CS141
or
CS141 SK

UPS

Not used at the moment

- Temperature Sensors
- Humidity Sensors
- SensorManager II
- MODBUS RS232
- GSM Modem

- SHUTDOWN
- COMMANDS
- MESSAGES

- HTTP / HTTPS / UPSMON / UNMS
- Remote programs start
- SNMP / SNMP trap
- E-mail
- MODBUS over IP
- BACnet IP
- Configuration / Firmware update
- Log file, Historic Data file

- Unix / Linux + agent RCCMD
- Windows + agent RCCMD
- MAC OS X + agent RCCMD
- AS/400 + agent RCCMD
- VMware + agent RCCMD
- Citrix + agent RCCMD

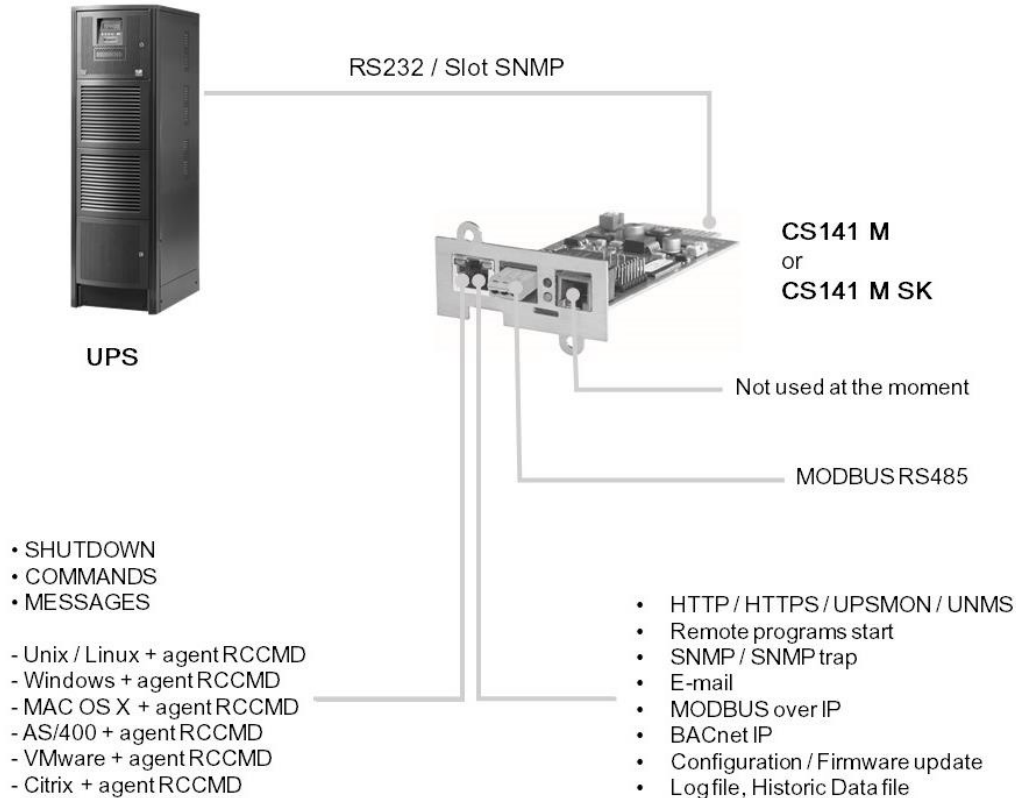### 3. TECHNICAL DATA OF THE CS141 PROFESSIONAL

Dati Tecnici	CS141 (versione esterna)	CS141 SK (versione interna)
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	10/100 Mbit Base-T auto sense	10/100 Mbit 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

Network interface
type CS141

**3 109 30 - 3 109 31 - 3 109 32 -
3 109 33 - 3 109 34 - 3 109 35**

2. FUNCTION OVERVIEW OF THE CS141 INDUSTRIAL

RS232 / Slot SNMP

CS141 M
or
CS141 M SK

Not used at the moment

MODBUS RS485

UPS

- SHUTDOWN
- COMMANDS
- MESSAGES

- Unix / Linux + agent RCCMD
- Windows + agent RCCMD
- MAC OS X + agent RCCMD
- AS/400 + agent RCCMD
- VMware + agent RCCMD
- Citrix + agent RCCMD

- HTTP / HTTPS / UPSMON / UNMS
- Remote programs start
- SNMP / SNMP trap
- E-mail
- MODBUS over IP
- BACnet IP
- Configuration / Firmware update
- Logfile, Historic Data file

3. TECHNICAL DATA OF THE CS141 INDUSTRIAL

Dati Tecnici	CS141M (versione esterna)	CS141M SK (versione interna)
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	10/100 Mbit Base-T auto sense	10/100 Mbit Base-T auto sense
Status LEDs	Normal green, boot/error red	Normal green, boot/error red
RS232 Interface	1	1
USB Interface	1	1
MODBUS over IP	1	-
SNMPMIB support	Yes	Yes
BACnet IP	MIB RFC 1628 and private extensions	MIB RFC 1628 and private extensions
Operating temperature	Yes	Yes
Storage temperature	0 ÷ 70 °C	0 ÷ 70 °C
Max. recommended ambient temperature	0 ÷ 70 °C	0 ÷ 70 °C
Humidity	55 °C	55 °C
CPU	20 ÷ 95 °C, non condensing	20 ÷ 95 °C, non condensing
Flash memory	ARM Cortex A8 800 MHz	ARM Cortex A8 800 MHz
RAM memory	512 MB	512 MB
Certifications	128 MB DDR3	128 MB DDR3
Power supply	CE, UL / NEMKO	CE, UL / NEMKO