MESSAGING AND UND SERVER SHUTDOWN IN HETEROGENEOUS NETWORKS PER RCCMD The RCCMD (= Remote Console Command) multi-server software is a software solution used successfully all over the world, which is responsible for the sending of messages for secure remote command execution and system shutdown of computers in problem situations. Thereby the messaging between computers of all common operating systems is feasible.
Via RCCMD it is possible to shut down several hundred protected computers in a network at once (delayed if required) and above all in a controlled manner. RCCMD can be used for more than 35 operating systems. The RCCMD Version 3 can combine up to four UPS systems as a parallel redundant group. RCCMD is compatible with the software JUMP as well as with the SNMP adapter of the CS-121 series. The RCCMD module is already integrated in the CS-121 and also in the software JUMP
as an independent program module. On the PC with the installed JUMP software, e.g. on the CS-121, the RCCMD performs as „transmitter“. On all other computers the RCCMD module performs as „listener“ =“client“; these computers react each to the „transmitter“ RCCMD module. The installation of the software is feasible on any computer.

MODBUS
Tamin Tablo Wärtsilä JOVYATLAS offers a spe
cial developed MODBUS system to monitor UPS systems. The MODBUS unit converts the data flow of the UPS systems into the MODBUS protocol. Thereby the most significant operating parameters as well as alerts are allocated.
For the systems of the JOVYSTAR DELTA series this is an additional

are equipped with an additional interface card for the MODBUS output. For both UPS series the MODBUS connection is available in the form of a RS-485 interface, for the adapter of JOVYSTAR DELTA alternatively also as a RS-232 interface.

PROFIBUS-DP
The PROFIBUS connection is an extension of the MODBUS system. The central control of decentralised peripheries is enabled via PROFIBUS-DP; hereby the focus is on the manifold diagnostic possibilities. Visualisation software in addition to the UPS diagnosis allows the display of the operating status in real time mode or within certain time frames, which can be determined freely by the user. For all UPS systems of the Wärtsilä JOVYSTAR series an interface for the direct connection to the PROFIBUS-DP system according to DIN EN 50170 is available.

PROFIBUS CONVERTER:
Via the PROFIBUS converter devices with serial interfaces are quickly and cost-effectively integrated into PROFIBUS as DP slave devices. Depending on the application different protocols and physical interfaces are available. In decentralised PROFIBUS installations the PROFIBUS converter replaces herewith the serial interface in the PLC. The PROFIBUS converter can be easily installed, set and configured. An additional configuration program is not necessary.

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- **MODBUS**
- **PROFIBUS**
- **INDIVIDUAL CONFIGURATION OFFERS VARIOUS LEVEL OF SECURITY**

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TTC WÄRTSILÄ

UPS MANAGEMENT

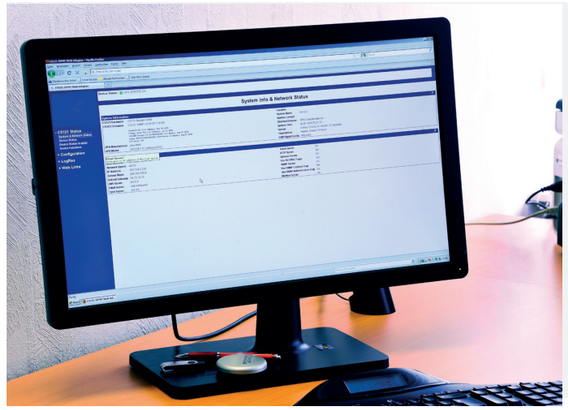
PRODUCT LEAFLET

To check the safe functioning of the UPS systems , retrieve system information or to handle the settings of the UPS systems remotely, Tamin Tablo Wärtsilä JOVYATLAS offers various monitoring and control systems for UPS systems, allowing the easy control and management of the systems . Whether JOVYATLAS UPS Management Program JUMP or diverse SNMP adapter, relay cards or Bussystems - the possibilities are manifold . We would be happy to advise you and find out the best solution for your systems and requirements in close cooperation with you .

SHUTDOWN- AND UPS MANAGEMENT SOFTWARE JUMP
The software JUMP (JOVYATLAS UPS Management Program) provides the customer with a single work station and a user-friendly and easy to handle interface, whereby Tamin Tablo Wärtsilä JOVYATLAS UPS systems can be controlled and monitored. Precondition for the use of the JUMP software as monitoring tool is the presence of a PC, which is directly connected to the UPS.

Besides monitoring and control of the UPS the JUMP software allows a regulated shutdown of all computers connected in the network (multi-server shutdown). The software JUMP ensures that all users supplied by the UPS are informed of the power failure and that the operating systems are shut down orderly after an adjustable time or shortly before the end of discharging end of the batteries. Using the JUMP software for the management of the UPS systems the monitoring PC has to be connected to the UPS directly via RS232 interface. The JUMP software is used both as a single user version and for networks (homogeneous and heterogeneous). It is sufficient, if one of the computer is connected to the UPS. The other computer will receive the notification via the network. As a matter of course the computers in the data network can have different operating systems.

Fig.1 UPS System Management Software JUMP



- Easy installation and subsequent extension of the shutdown software
- Software updates via the Internet
- Only one CD - ROM for nearly all operating systems
- Easy configuration, Quick Guide included
- Documentation on the CD - ROM in Word and PDF format

12 / 2016

RELAY CARDS

Relay cards serve to monitor the UPS systems and display the status only of the status: ON/OFF, error/ operation; they do not offer any further possibility of description. Relay cards offer therefore the simplest manner of monitoring UPS systems. The relay cards can be integrated as slot cards into the UPS systems of the JOVYTEC and POWERMASTER S series. SNMP adapters, if required can alternatively replace relay cards as slot cards. As an option the relay cards can be installed permanently in the devices of the JOVYSTAR series.

UPS MANAGEMENT BY SNMP ADAPTER

If the UPS can/should not directly be connected to a PC and a network connection is in the vicinity to a UPS system, a comprehensive monitoring of the system via the SNMP adapter is feasible. The SNMP protocol (Simp le Network Management Protocol) is a worldwide valid standard to control hardware connected to a network and to get notified about cross-network status data of the device. During use of a SNMP adapter the UPS system receives a single IP address via the SNMP protocol, by which the UPS system can be called, monitored and controlled from any PC via a web browser.

CHOOSEABLE DESIGNS OF SNMP-ADAPTERS

Tamin Tablo Wärtsilä JOVYATLAS offers two different versions of SNMP adapters:

SNMP adapter via insert (for all JOVYTEC- and JOVYSTAR systems): Type CS121BSC or CS121SC

SNMP adapter as external system (for all UPS

systems with RS232 interface): Type CS121L or Type CS121BL

Each of these variants is available as „budget“ versi on with pure network functionality or as „professional“ version (Type SC or Type L) with additional interfaces and in- and outputs. SNMP adapter of the type „budget“ have only one Ethernet connection. In most cases these variants are sufficient to monitor the UPS and to shut down the server. SNMP adapter of the more comprehensive version „professional“ are equipped with additional interfaces. Thus, e.g. sensors to monitor the temperature, to measure air humidity and acoustic signal devices can be connected separately. For simple installation the respective sensor is delivered with a preassembled cable. Each housing can be fixed e.g. to the wall via two holes drilled in the housing base. The sensors can be connected directly at the input/output of the sensor manager or at the interface of the CS121 SNMP-Adapters.

The monitoring and control via SNMP adapter is suitable for monitoring all Tamin Tablo Wärtsilä JOVYATLAS UPS Systems and offers the following options:

- Remote querying of the UPS values via web browser
- Graphic and non-graphic user interface via web browser
- Data logging: the non-volatile memory records alert messages and logs measured values
- Sending of alarm alerts per email to workstations, server, pagers, cell-phones etc.

SENSORMANAGER

For monitoring and administration of sensor values in computer areas and buildings Tamin Tablo Wärtsilä JOVYATLAS
offers Sensormanagers, providing the precise monitoring of temperature, air humidity and other measurements. Sensormanager detect injurious system conditions and initiate automated measures to safeguard critical processes. These include inter alia network alerts or shutdowns of server farms etc. By setting the limit values (min/max) the control and the execution of events can be managed individually, e.g. user-defined UPS and computer shutdown conditions. The easy measurement value setting of the sensors is implemented by scaling factors. The result is the precise evaluation of the captured values.
The Sensormanagers have available connection options for up to 8 single, analogue sensor elements, e.g. for values as temperature, humidity etc. (When connecting sensors with more than 4 sensor units a RJ12 splitter connection is required).
The Sensormanager is equipped with 4 digital output contacts and 4 digital input contacts. New temperature and humidity sensors with additional I/O module enable easy and direct connection without additional cabling. The graphic representation of the measurements is possible via web browser, UNMS II, SNMP, Modbus over IP and WAP. Mounting kit for 35mm DIN rail or wall mounting is optionally available.

OPTIONS FOR THE SENSORMANAGER Temperature sensor
Combined sensor for temperature and humidity Water and humidity sensor
Acoustic signal
Optic signal
Glass break sensor
Motion detector

TEMPERATURE SENSORS

Measuring range temperature:	-25°C up to +100°C ± 0,5%
Measuring range humidity:	-----
Output signal:	serial protocol (2400 Baud)
Operating voltage	8 - 12V DC
Characteristics:	Supply via COM2 of CS121
Connection cable:	DB9 - Mini-DIN, 1.8m (in scope of delivery) max. 30 m
Dimensions:	70 x 70 x 27 mm (W x D x H)

TEMPERATURE/ HUMIDITY SENSORS

Measuring range temperature:	5°C bis +100°C ± 0,5%
Measuring range humidity:	0 - 100% rel. L, ±2%
Output signal:	Serielles Protokoll (2400 Baud)
Operating voltage:	8 - 12V DC
Characteristics:	Supply via COM2 of CS121
Connection cable:	DB9 - Mini-DIN, 1.8m (in scope of delivery) max. 30 m
Dimensions:	70 x 70 x 27 mm (W x D x H)

ACOUSTIC SIGNALIZER

Operating voltage:	3 - 4V DC
Power consumption:	approx. 15mA
Noise level:	approx. 70 dB
Connection cable:	RJ12/6_5, 5m
Dimensions:	70 x 70 x 27 mm (W x D x H)

Fig.2 SNMP adapter and relay card

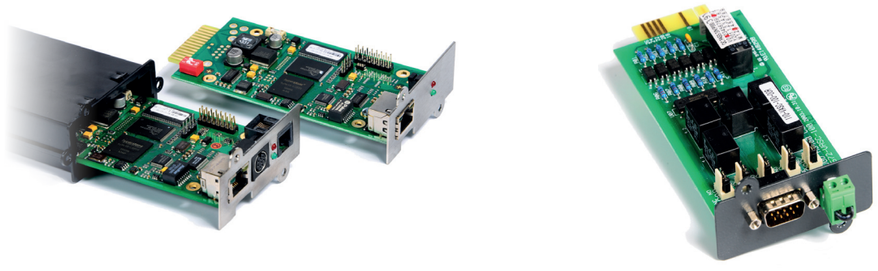


Fig.3 Sensormanager and optional accessories

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