



Didactum Monitoring System 500 II

The Monitoring System 100 III has many uses:

- Monitoring of wiring closets and server room environments
- Remote monitoring of technical rooms in branch offices
- Monitoring of power supply systems
- Monitoring of telecommunication infrastructure
- 24/7 monitoring of air conditioning / HVAC systems
- Remote Monitoring of UPS and standby power systems
- Monitoring of server cabinets / rack monitoring
- Monitoring of production areas
- Temperature monitoring of cold rooms / cold storage
- Monitoring of building systems
- Remote monitoring of warehouse, depot and archive
- and many more....

Features of Didactum Monitoring System 100 III:

- Made in E.U.
- Optional 19" rack mount kit for cabinet assembly
- Stand-alone operation, no software installation required
- DHCP, HTTP(S), SNMP, SMTP, SSL, FTP, Syslog, Radius
- SNMP v1/v2c/v3 compatible for integration in SNMP-Tools and Network Management Systems (eg Nagios)
- 10/100 Mbit Ethernet Port, 64 MB RAM, 128 MB ROM,
- 4x Autoidentification ports for Didactum analog sensors
- 4x Dry Contact ports for IP integration of dry contacts
- 2x signal outputs for e.g. sirens (12V, 0.25A)
- 1x CAN Bus for CAN units and digital CAN sensors
- 1x USB port for optional GSM modem or USB video camera
- Extensive portfolio of IP-based Didactum sensors
- Status indicators on the front panel (LED)
- multilingual Web GUI with integrated logics
- Alarms such as SNMP, e-mail, SMS (GSM modem required)
- Separate logins for user and Admin, LDAP Support
- SNMP-Traps to Network Management Systems, SNMPget
- SNMP MIB Files and Nagios Plugins included
- Integrated graphing functions
- XML- & CSV- files for export of measured sensor data
- Integrated mapping function
- Integrated time and date filters
- Free firmware updates (web)
- and many more.....



Fig.: This networked temp sensor is included with Didactum's remote monitoring unit. In order to ensure trouble-free operation of the measurement sensors in a server room and in technology environments, the Didactum engineers decided consciously to use only wired sensors. This decision was based on testing of EMI and other factors that wireless sensors are effected by and could be unreliable.

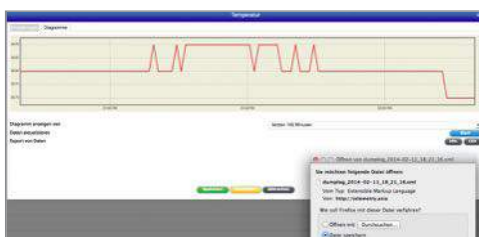


Fig.: In the Web GUI, you can display the measured data graphically. The data can be easily exported as a CSV or XML file format for further processing.

Protect your mission-critical infrastructure

With this new 500 II unit you get a proven remote monitoring solution to protect your mission-critical facilities and sites. This device is applicable across sectors and suitable for remote monitoring of sensitive IT infrastructure (server room / data center), as well as for production areas and remote technical rooms. The new monitoring 500 II is a stand-alone monitoring device. Thanks to its full SNMP support, this monitoring unit can be used with SNMP tools and Network Management Systems (NMS), such as Nagios or OpenNMS and many more. This device has a built-in Web server for easy configuration. It supports network protocols such as CAN, DHCP, HTTP(S), SNMP, SMTP, FTP, Radius, and Syslog. State changes, operating problems and critical events are reported immediately by e-mail, FTP, Syslog or SNMP. If you order the optional GRPS- / GSM- modem, this high-end monitoring system also send critical events and alarms via SMS notification directly to your mobile phone. This is recommended for example in case of malfunction or failure of your network connections.

Important features of this networked 500 II monitoring device are

- Completely stand-alone operation, no software installation required
- Multilingual WebGUI (English / French / German / Italian / Korean / Polish / Russian / Spanish / Turkish)
- Fully SNMPv1/v2c/v3 support for NMS and DCIM integration
- SNMP MIB files and plugins for Nagios included
- Integrated logics for comprehensive notification and alarm functions such as email, SMS (GSM modem required) and SNMP traps. SNMP Set and SNMP Get support.
- 8* autoidentification ports for up to 8 IP-capable analog sensors
- 1* CAN Bus Port (Controller Area Network) for additional CAN units and digital CAN sensors
- 4* inputs for network integration of dry contacts (eg HVAC and UPS systems)
- 8* additional dry contact inputs, 2* bistable relays and 1* backup power input (extra charge)
- 2* 12VDC outputs for sirens, access control or for building control systems
- Manual or sensor controlled actions such as relay switching
- Integrated syslog and data logger and built-in clock with NTP synchronization
- Includes 1x factory calibrated networked temperature sensor

Connection for 8 analog sensors, extendable using CAN bus units

New 500 II remote monitoring unit provides on the front panel 8 analog sensor ports. Depending on your individual requirements, you can choose your sensors from Didactum's extensive range of sensors. Configure your custom IP-based remote measurement and alerting system with analog sensors such as temperature sensors, humidity sensors, vibration sensors, motion detectors, water sensors, magnetic door contacts or voltage sensors. Each Didactum sensor is supplied with a included patch cable. If needed, the cable length can be extended on request. Via autoidentification function, the sensors are automatically recognized by monitoring unit 500 II and displayed in its multilingual webGUI. Set individually selectable thresholds and limits each sensor. Then simply set the desired types of notifications and alerts. For connection of a larger number of sensors, so you can connect the sensor expansion unit to of the CAN bus port. Use only one serial RJ-12 patch cable to connect digital CAN sensors and/or CAN units. For many years CAN bus (Controller Area Network) is a industry proven field bus protocol. The total length of the CAN bus can be up to 305 meters (1000ft). Ideal for the integration of additional critical infrastructure.

Real-time monitoring of key environmental and safety factors, including critical sensors:

- Temperature sensors for precise measurement and control of room temperature
- Humidity sensors for measuring and monitoring the humidity (RH) of the ambient air (static)
- Smoke detectors for the reliable detection of a smoldering fire and flames
- Water sensors for precise alerts when water damage is immanent
- Water leakage cables in individual lengths of up to 50 meters for monitoring double floors, walls, ceilings or (water) pipes
- Combined smoke, humidity and temperature sensors for easy installation
- Magnetic door contact sensors for monitoring of server cabinets / IT racks
- Sirens with built-in strobe light for the audio visual alarm
- AC/DC voltage sensors for remote monitoring and metering of power
- PIR sensors for detection of presence and movement
- Vibration sensors for detection of forced entry



Fig.: For networked Didactum Monitoring System 500 II are accessories like internal GSM-/GPRS modem available.



Fig.: Extensive time and date filters enable precise configuration of the Didactum sensors.



Fig.: The environmental factor humidity plays a significant role in wiring closets and server rooms.



Fig.: The measured sensor data can be graphical displayed in multi-lingual Web GUI.



Fig.: Each sensor can be configured individually in web GUI. Select individual day and time filters.

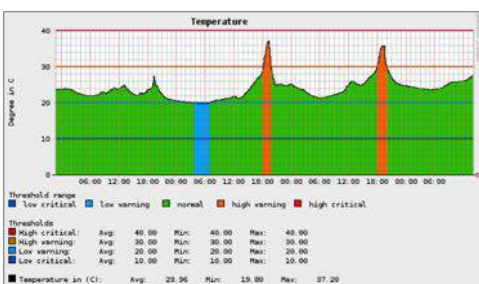


Fig.: Thanks to it's full SNMP support, this monitoring unit can be integrated into SNMP tools and Network Management Systems (NMS). MIB files and Nagios plugins are included.

Networked remote dry contact monitoring

Many devices and systems in commercial buildings are equipped with relays or dry contacts. For example, via the two-wire technology signal these can be heating systems, air conditioning systems, ventilation systems, fire alarm systems, UPS systems, emergency power systems, emergency generators or reed contacts including important status and maintenance messages. Up to 4 dry contacts can be monitored with this networked remote monitoring system. If you order the optional expansion board, you receive 8 additional dry contact inputs. The remote monitoring unit is equipped with 2 12VDC outputs for triggering e.g. sirens.

Notification and alarm functions

The 500 II unit is designed for 24/7/365 monitoring of mission-critical facilities and equipment. During the design process, the existence of fans or portable hard drives was deliberately omitted. Not sacrificing Didactum users on extensive types of notifications and alerts! Thus, critical events, such as too high a temperature, are reported via email or SMS (via optional GSM modem). SNMP Traps, SNMPset and SNMPget are also supported by Didactum's networked remote monitoring device. In the multilingual WebGUI logic operations and individual alarm schedules can be easily defined.

2 optional integrated relays, manual or sensor switchable

By ordering the optional expansion board, your 500 II unit will be equipped with 2 built-in relays. Here you can connect external devices such as fans, etc.. These can then be switched on and off manually or automatically by the integrated logics

Example:

The SNMP-enabled temperature sensor (No. 14010) detects a temperature rise in the server cabinet. To protect the sensitive server equipment, the monitoring 500 II device automatically switches the connected fan systems. After restoring the desired temperature in IT rack, the fans will be turned off automatically. This example is transferable to other constellations.

EAN Code: 072008965802

Product codes:

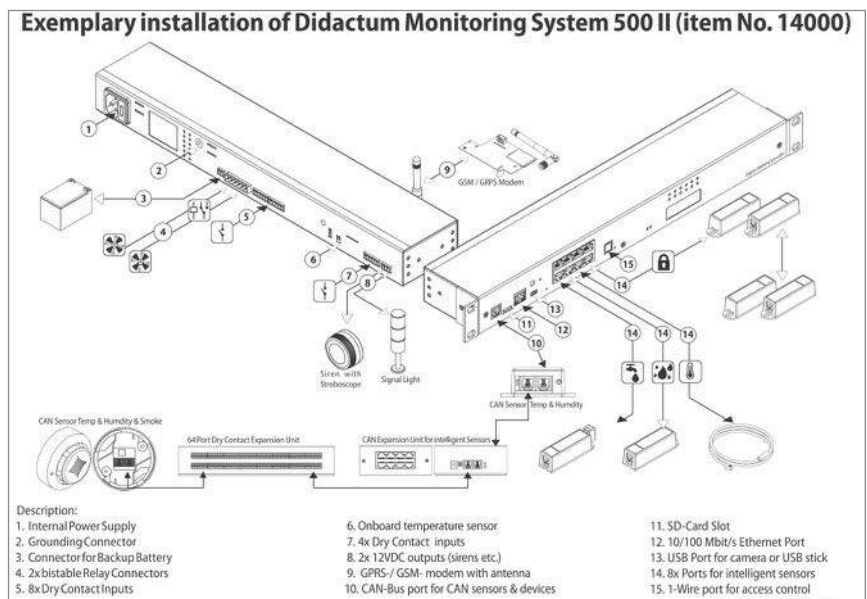
E_14000 Didactum Monitoring System 500 II; 1x temperature sensor & rack mount kit included

Options:

E_14108 GSM / GPRS Modem for Didactum Monitoring System 500 II

E_14120 Expansion Board for 500 II monitoring device

E_14110 1-Wire Board for RFID card reader or 1-Wire sensors



Overview remote monitoring devices



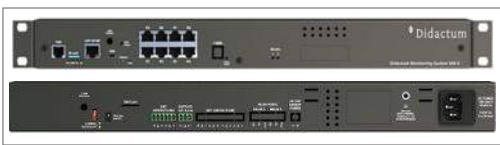
Didactum Monitoring System 50 (item No. E_14109)

The monitoring system 50 represents the entry-level system of networked infrastructure monitoring systems by Didactum. In addition to multilingual WebGUI, this alarm system offers 2 ports for intelligent IP sensors. A precise temperature sensor is already included. This compact monitoring device can send alerts in the form of emails, SMS (via 3rd party Gateway) or SNMP traps to network monitoring tools such as Nagios or Cacti.



Didactum Monitoring System 100 III (item No. E_14005)

This networked remote monitoring unit offers in addition to multilingual WebGUI, 4 autodetect sensor ports for any Didactum analog sensors. One CAN-Bus port offers flexible expansion with CAN units and CAN sensors. A factory-calibrated temperature sensor is included in delivery. This SNMPv1/v2c/3 enabled remote monitoring system can send notifications and alerts via email, SMS (via GSM-/GPRS- modem) and SNMP Traps to NMS such as Nagios.



Didactum Monitoring System 500 II (item No. E_14000)

With the new Monitoring System 500 II you get a remote monitoring solution to protect your critical infrastructure such as server room, as well as production areas and technical facilities. With its full SNMP support this unit can be integrated in DCIM software, Network Management Systems (NMS) and data visualization software. The unit provides 8 ports for analog sensors. One CAN-bus port provides flexibility and support for the future expansion of your infrastructure monitoring requirements. An optional expansion board offers 2 relay ports for IP-based automated control of important equipment such as fans. This unit has 4 dry contact inputs and can be equipped with an optional GSM / GPRS modem.



Didactum Monitoring System 500 II DC (item No. E_14004)

This IT monitoring appliance is specifically designed for monitoring energy and telecommunications infrastructures and is equipped with an internal 24-48VDC power supply. With 1x CAN bus port and 8 analog sensor ports, this IP-based monitoring device can monitor your critical equipment over the network or the web. 2 integrated 12VDC relays can be switched on and off manually, via SNMP commands, or in combination with connected sensors. This remote monitoring unit is fully SNMPv1/v2c/v3 compliant and can be integrated in almost all SNMP-enabled monitoring tools and Network Management Systems (NMS). As an additional option, this unit can be equipped with an expansion board which includes 8 additional dry contacts, 2 relays and a backup battery connector.



Didactum Monitoring System 600 (item No. E_14001)

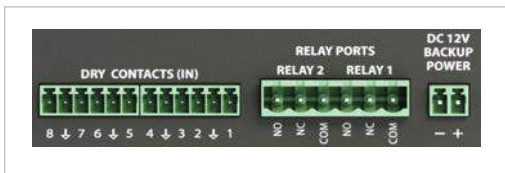
This high-end monitoring appliance is currently the top product of Didactum's networked remote monitoring devices. In addition to 2x CAN bus port, 8 analog sensor ports, this unit is equipped with 4x C13 relay outputs. The full support of SNMPv1/v2c/v3 supports the seamless integration of this monitoring unit into other third party SNMP-based building and network management solutions.



Intelligent PDUs 700/750 (item No. E_14130 & E_14038)

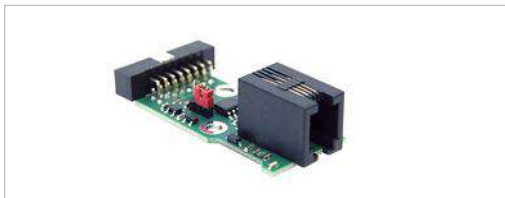
These network enabled power distribution units offer 4 or 8 sockets. Via WebGUI, SNMP command or in interaction with sensors, you can remotely manage the power of mission-critical devices such as server systems. At the same time you can attach CAN sensors and CAN expansion units to the PDUs. This allows you to drastically enhance the control your infrastructure and reduce your costs of monitoring. Using the optional GSM modem, you can even send remote SMS commands to these PDUs.

Options and accessories for remote monitoring units:



Expansion board for 500 II remote monitoring units (item No. E_14120)

This optional expansion board for 500 II remote environmental and security monitoring devices offers 8 inputs for dry contacts and 2 bistable relays for switching connected devices such as pumps or fans. In addition, this module offers an 12VDC input for emergency power supply.



1-Wire board for 50/100III/ 500 II monitoring devices (item No. E_14110)

Equip your 50/100III/500II monitoring unit with this optional 1-Wire board and connect a RFID card reader or a electronic key reader. Alternatively, Didactum`s new SNMP-enabled 1-Wire sensors can be attached. Up to 20 of these 1-Wire sensors can be chained in series.



GSM- / GPRS- Modem for remote monitoring units and pdu`s (item No. E_14108)

Upgrade your monitoring device 100III/500 II/500 II DC and your pdu 700/750 with this internal GSM modem and get notified via SMS notification at critical events. This GSM modem can be directly addressed by Nagios and Nagios forks with an optional plugin.



Weatherproof outdoor antenna for GSM modem (item No. E_14036)

If you have a bad GSM reception quality in your server room, the use of this weatherproof station antenna is recommended. The cable length of the antenna is 30 meters. Bracket, screws and dowels are included. Suitable for all GPRS / GSM modems from manufacturer Didactum.



Li-Ion battery pack for backup power (item No. E_14007)

Didactum`s SNMP-enabled remote monitoring systems 500, 500-DC and 600 can be equipped with this Li-Ion battery. In case of power failure or insufficient capacity of the UPS system, your Didactum remote monitoring system is supplied with backup battery voltage.



Holder for backup battery pack (item No. E_14008)

This metal holder was designed for the optional rechargeable battery pack. The holder is simply hung into the retaining notches on the back of the 500/500 II / 500 II DC / 600 monitoring unit. Screws are not required.



1U Rack Mount Kit for Monitoring System 100 III (item No. E_14006)

With this rack mount kit, you can easily install your networked Monitoring System 100 III into a 19 inch server cabinet.



USB video camera with integrated IR night vision (item No. E_14139)

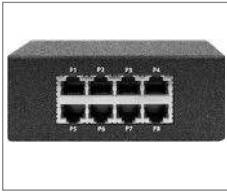
This low-cost video camera with integrated IR night vision function is simply connected to the USB port of your Didactum monitoring device. In the webGUI live images of the USB cam are displayed. Pictures and videos of events (access server room, rack access) can be sent by the monitoring device via e-mail or SMS (GSM modem needed).



Mounting bracket for remote monitoring devices (item No. E_14111)

The IP-based monitoring devices from manufacturer Didactum can be mounted horizontally, vertically with these rotatable mounting brackets. You can also mount them on a wall.

Didactum CAN devices and digital CAN sensors:



Didactum Expansion Unit for Analog Sensors (item No. E_14029)

This CAN expansion unit is connected to the CAN-bus port on the IP-based remote monitoring devices 100III/500II/600. Connect up to 8 different analog sensors. By autoidentification feature, each sensor is immediately recognized by the remote monitoring unit. In the webGUI, you can define individual limits and warning thresholds for each sensor. Then just set the desired alert or notification for each sensor. The maximum distance between the CAN extension unit and the monitoring systems 500 II/500 II DC/600 can be up to 305 meters. Individual CAN sensors and CAN units can be easily connected in series.



Didactum Dry Contact CAN unit (item No. E_14028)

Monitor with this CAN unit, 32 or 64 dry contacts of critical equipment and systems.

This CAN-Bus dry contact unit is supported by remote monitoring units 100III/500 II/500 II DC/600. You can easily configure the Dry Contact CAN unit in the multilingual webGUI.



Didactum Combined Sensor Unit for Rack Monitoring (item No. E_14030)

This CAN-sensor unit has been specially designed for monitoring of server cabinets. In this sensor unit, a passive infrared sensor, a humidity sensor and two dry contact are integrated. This sensor unit is connected via CAN bus with your SNMP-enabled Didactum measuring and remote monitoring device. In its webGUI, you can specify the desired actions and notifications. By use of RJ12 patch cable, the total length between sensor unit and Didactum main device can be up to 305 meters. The networked remote monitoring devices 100III/500 II /500 II DC/600 are supported.



Didactum Combined Sensor Unit AirFlow & Temperature (item No. E_14034)

This combined sensor unit has been specially designed for the measurement and monitoring of ventilation and air-cooling systems. Monitor the presence of the Air Flow and control its temperature. The sensor unit has 6 ports for the combined Air-Flow & Temperature sensors. 2 of these combined sensors are already included.



Didactum Combined Sensor Temperature & Humidity (item No. E_14044)

This sensor is designed for the measurement of the two important environmental parameters temperature and humidity (RH). This combined sensor belongs to the group of Didactum's CAN enabled sensors (Control Area Network). This dual temperature and humidity sensor is compatible to Didactum remote monitoring systems 100III/500 II /500 II DC/600 and PDUs.. This temperature and humidity Sensor is factory calibrated according to ISO/IEC 17025.



Combined CAN Sensor Unit: Smoke Detector, Temperature & Humidity (item No. E_14035)

This innovative Didactum CAN sensor unit integrates a smoke detector, temperature and humidity (RH) sensor. Monitor with this combined sensor unit important infrastructure such as technical room, server room, production and storage area. Up to 8 of these units can be connected in one chain. In web interface, you can set for the temperature and humidity individual thresholds and warning values. All remote monitoring devices from manufacturer Didactum can send E-Mail, SMS notifications (GSM modem required) and SNMP traps to NMS such as Nagios, OpenNMS, or Zabbix and many more.



Combined CAN Sensor Unit Temperature, Motion and Vibration (item No. E_14031)

This CAN bus sensor unit combines a temperature sensor, a passive infrared sensor (PIR) and a vibration detector in a single case. Monitor with this combined sensor your mission-critical infrastructure. If temperature variations, motion or vibration is detected, you will be notified by E-mail, SMS (GSM modem required) or by SNMP traps to your building or network monitoring solution. Didactum Monitoring Systems 100III/500 II /500 II DC/600 are supported by this combined CAN-sensor unit.

Analog Sensors for Environmental Monitoring I



Temperature Sensor (item No. E_14010)

The SNMP-enabled Didactum temperature sensor is specially designed for the precise measurement of the temperature. This sensor is compatible with Didactum's complete range of SNMP-enabled Monitoring Systems. Via autoidentification function of the sensor is automatically detected by IP-based Didactum monitoring device.

This sensor can be placed on request up to 100 meters away from the Didactum remote monitoring appliance via patch cable.



Outdoor Temperature Sensor (item No. E_14011)

The SNMP-enabled Didactum Outdoor Temperature sensor has been developed for the measurement of temperature in damp/ wet (production) environments as well as for outdoor area. The length of the connecting cable is 15 meters. If desired, this weather-resistant sensor can be located up to 100 meters away from the Didactum monitoring appliance. This sensor is automatically detected by all Didactum network-enabled remote monitoring systems.



Humidity Sensor (RH) (item No. E_14012)

This precise sensor used to measure the important environmental factor relative humidity (RH). The sensor can be located up to 50 meters away via patch cable from SNMPv1/v2c/v3 compliant Didactum measuring and monitoring system.

Per autoidentification function, this humidity sensor is automatically detected and displayed in the web interface of your monitoring unit. You can then define limits and warning levels for humidity. Your monitoring device will send you alerts via E-mail, SMS (requires GSM modem) or SNMP traps. The measured data can be exported as XML- or CSV- file.



Water Leakage Sensor (Item No. E_14018)

The SNMP-enabled Didactum water sensor detects water and water-based liquids. In case of water leaks and the presence of condensation you will be reliably alerted by the Didactum Infrastructure Monitoring System. The water sensor can be extended up to 100 meters away of your Didactum main unit to enable flexible installation.



Sensor unit for Water Detection Cable (Item No. E_14020)

This SNMP-enabled sensor unit is specially designed for the Didactum Water Detection Cable. Connect to this sensor unit Didactum's Water Leak Detection with individual length of up to 50 meters. The sensor unit itself can be extended with patch cable up to 100 meters away from the Didactum Infrastructure Monitoring System. Via autoidentification feature, the water leakage cable is detected automatically and can be easily configured in the Web GUI of Didactum units. In case of leakage, you will be notified by Didactum's network enabled early warning system.



Water Detection Cable (item No. E_14021)

This Water Detection Cable is specially designed for the reliable detection of water leakage. This cable is simply mounted to the Didactum Sensor unit (item No. 14021). The Water Detection Cable is available in lengths from 6 to 50 meters. On the entire length of this cable, the discharge of water / condensation / moisture is detected.



Infrared Access Sensor (item No. E_14135)

This IR access sensor is designed to protect mission critical IT racks and server cabinets. Increase the security of your 19" rack by installing this IR access sensor. Monitor nonstop the status of the door of your server cabinet. Get instant alerts by e-mail, SMS or SNMP Trap as soon as the door of the server cabinet is opened or closed. By use of autoidentification feature, this IR access sensor is detected automatically and can be easily configured in the webGUI of the remote monitoring units.



Didactum Vibration Sensor (item No. E_14014)

Protect your valuable infrastructure: This sensor is used to detect vibrations / glass breakage. This vibration sensor can monitor doors, windows, glass walls and walls made of plasterboard. This sensor can be connected in chain to protect larger areas. The Didactum monitoring appliance detects the sensor automatically by use of the autoidentification feature.

Analog Sensors for Environmental Monitoring II



Didactum Smoke Detector (item No. E_14017)

Install this smoke detector to be immediately alerted in case of fire. On request the Didactum smoke sensors can be connected in series. By using a patch cable the smoke sensor can be extended up to 150 meters from the Didactum main control unit. The Didactum Monitoring System will detect the smoke sensor automatically by the units built-in auto-identification feature. In case of smoke or fire you will be alerted via E-Mail, SMS (GSM modem required), or via SNMP traps to your third party gateway software or Network Management System (NMS).



Didactum Motion Detector (item No. E_14019)

Protect your mission critical infrastructure from security breaches: This SNMP-enabled motion detector has been specifically designed for the detection of movement or the presence of irregular activity within your infrastructure. The integrated passive infrared sensor has a range of up to 12 meters at an angle of 110°. This Motion Detector can be extended up to 50 meters away from the Didactum monitoring device. The monitoring appliance recognizes the sensor by the built in auto-identification feature. You can then easily setup the notifications such as E-Mail, SNMP traps or relay actions in the WebGUI of the Didactum monitoring unit. You can also setup the time and date filters to eliminate unwanted alerts during normal working hours.



Didactum Security Sensor (item No. E_14015)

Protect your important server room and server cabinets against unauthorized access. The SNMP-enabled sensor security is a magnetic switch used for reliable monitoring of windows, doors, cabinets, etc. Once a door is opened, you will be notified by Didactum Monitoring System via E-mail, SMS (GSM modem required), or via SNMP traps.

1-Wire sensors:



1-Wire Temperature Sensor (item No. E_14114)

This 1-Wire sensor is used for networked temperature monitoring of large halls and is suitable for all Didactum remote measuring and monitoring units equipped with a 1-Wire port. This temp sensor is detected by auto-identification feature. In the webGUI, you can configure each 1-Wire sensor individually. Up to 20 sensors can be connected in series. The total length can be up to 100 meters. Each individual sensor has its own OID and can be queried directly via SNMP.



1-Wire Board for Remote Monitoring Units 50/100III/ 500 II (item No. E_14110)

The monitoring units of the series 50 / 100III / 500II can be equipped with this 1-Wire board. Connect the RFID card reader or electronic key reader and use this remote monitoring device for access control. Alternatively, the new SNMP-capable 1-Wire sensors from Didactum can be connected. Up to 20 of these sensors can be connected in series. The total length can be 100 meters.

WiFi Sensors:



WiFi Sensor Temperature and Humidity (item No. E_14136)

This WiFi sensor is used for the real-time measurement of the important environmental factors temperature & humidity (RH). This dual sensor is connected to an existing wireless LAN network and configured via its web interface. The measured temp and humidity values are transmitted via SNMP to building or network management systems (including Nagios, OpenNMS, WhatsUp Gold, Zabbix). The measurement sensor data can also be transferred to the cloud. This WiFi sensor supports the MQTT protocol (Message Queue Telemetry Transport) in the field of M2M communication.



WiFi Thermometer (item No. E_14138)

SNMP enabled WiFi Thermometer from manufacturer Didactum for wireless temperature monitoring. The measuring range of this WiFi temp sensor is from -20 to +85 degrees Celsius (-4 to 185 degrees Fahrenheit). After this WiFi thermometer has been connected to the WLAN network, the real time measured temp values are transferred via SNMP to data visualization applications, monitoring tools (RRDtool, Cacti), DCIM solutions, or Network Management Systems (eg Nagios, OpenNMS, WhatsUp Gold, Zabbix, etc.).

Analog Sensors for SNMP-enabled Power Monitoring



Didactum DC Voltage Sensor (item No. E_14023)

This DC sensor has been specifically designed for network-based monitoring of DC current from 0-60V. It is compatible to all Didactum remote monitoring systems. The DC voltage sensor is simply plugged into one sensor port of your network-enabled Didactum Monitoring System. You can configure the DC current sensor in web GUI. This sensor can be located up to 100 meters away from the Didactum main monitoring unit.



Didactum AC Voltage Sensor (item No. E_14016)

Didactum's AC Voltage Sensor is suitable for network-enabled remote monitoring of AC current. The SNMP-enabled sensor is simply connected to an analog port of the sensor Didactum monitoring device and automatically displayed in its web GUI. You will be informed immediately, for example, during a power failure or when your UPS is running.



4-20 mA Signal Converter Sensor (item No. E_14022)

This 4-20 mA signal converter sensor is specially designed for the full SNMP-compliant monitoring devices. Existing analog sensors such as pressure sensors can be integrated with this signal converter sensor in the IP-based monitoring of Didactum devices. The measuring converter sensor is automatically detected by main unit. In its web interface, you can configure the signal converter individually. Set thresholds and select notifications such as E-Mail or SNMP traps. All measured data is stored in integrated data logger of the monitoring unit and can be easily exported as a CSV- or XML- file.



Dry Contact Sensor (Output) (item No. E_14103)

With this sensor, the networked monitoring devices from Didactum can switch dry contacts. In interaction with Didactum's temperature sensor an air conditioner can automatically switched on or off. Ideal also for the forwarding of messages (flooding, etc.) to alarm systems or building surveillance systems. Suitable for all network enabled remote monitoring systems from manufacturer Didactum



Didactum AC current transducer (item No. EN_14099)

This transducer is designed to measure AC current up to 100A. The power cable must not be disconnected during installation. It is simply inserted into the AC current transformer. With the optional transmitter sensor (item No. 14100) your Ethernet-based Didactum monitoring device can measure AC current around the clock. The ideal solution for remote energy monitoring. Critical conditions are reported by the networked monitoring units instantly via email, SMS (via GSM modem) or SNMP trap.



Didactum transmitter for AC transducer (item No. EN_14100)

Connect this transmitter sensor with the optionally available AC transducer and monitor with your networked Didactum remote monitoring device AC current up to 100A. This SNMP-enabled AC transmitter sensor is suitable for Didactum series 100/500/500DC/600/700.



Didactum DC current transducer (item No. E_14101)

This transmitter is designed for the measurement of DC current up to 100A. The power cable must not be disconnected during installation, as this is simply inserted in this DC current transducer. With the optionally available sensor DC transmitter (item 14102), the Didactum remote monitoring device can measure via TCP / IP network DC current. Upon request, you are notified from Didactum's monitoring system via siren, email, SMS via GSM modem) or SNMP traps.



Didactum transmitter for DC current transducer (item No. E_14102)

Connect this sensor with the optionally available DC current transducer and monitor with your networked Didactum remote monitoring device DC current up to 100A. In multilingual webGUI of Didactum's remote monitoring unit, you can easily define the necessary notifications and alarms.

Sensors for Dry Contact Installation



Airflow Sensor (item No. E_14033)

Server cabinets need non-stop air circulation to cool important servers and network equipment. Didactum's Airflow sensor is connected via a 2-wire signal cable to the dry contact module (optional) of the Didactum Monitoring System. If the fan of your power supply or cooling unit fails, you will be alerted immediately by Didactum's monitoring device.



Thermal Fire Detector (item No. E_14046)

This thermal fire detector is used in applications where due to high concentrations of dust, high airflow or high humidity, a use of optical smoke detector is not suitable. Its operation is based on maximum and differential thermal measurement. The thermal fire detector is connected via 2-wire cable with the dry contact inputs of an Didactum[®] network enabled monitoring system.



Gas Detector (item No. E_14040)

Didactum's gas detector has been specifically designed for the detection of gases. Uncontrolled escape of gases such as butane, propane, methane can be detected by this gas sensor. This sensor is simply connected via two-wire cable with the optional dry contact inputs of your Didactum remote monitoring system.



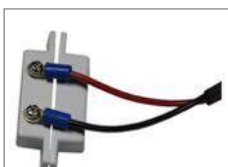
Combined PIR- / Microwave- Motion Detector (item No. E_14104)

With this innovative IR / microwave motion detector for Didactum remote monitoring devices, mission-critical infrastructures can be reliably monitored around the clock. Sophisticated algorithms provide excellent detection of presence and motion, paired with integrated false alarms prevention. This high-end motion detector is connected via two-wire cable to the networked alarm systems by Didactum.



Didactum Multi-Sensor Fire Detector (item No. E_14045)

Didactum's Multi-Sensor Fire Detector is equipped with optical and thermal detectors. It provides intelligent evaluation of its integrated measuring chamber. The Multi-Sensor Fire Detector is connected via 2-wire cable with dry contact input of an networked remote monitoring device from Didactum.



Didactum Security Sensor for Dry Contacts (item No. E_14032)

Protect important infrastructure such as technical room or server room from unauthorized access. This sensor is a magnetic contact switch and it's simply connected via two-wire cable with the contact input of your remote monitoring unit. In the web GUI you can define the normal state of the magnetic switch (normally open / normally closed). Get notified via E-mail, SMS (GSM modem required) or via SNMP trap when your server room is entered or server cabinet is opened.



Vibration detect sensor (item No. E_14053)

This sensor was designed for the protection of critical infrastructure against burglary and forced entry. Protect your glass building front, windows, walls, ceilings and server cabinets with this vibration detector. Simply connect this sensor with the dry contact inputs of your network-enabled Didactum monitoring device. If burglary or glass break is detected, you and your colleagues are reliably informed via E-Mail, SMS (via GSM modem) or by SNMP traps.



Alarm siren with Strobe light (item No. E_14051)

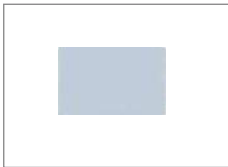
This alarm siren with integrated stroboscope flashing light is connected with the 12VDC output of your Didactum remote security monitoring unit. In the case of critical events or status changes, you and your colleagues will then receive an audio-visual alarm. Also available as flashlight without siren signal (Item No. E_14052).

Access control with Didactum monitoring units:



RFID card reader (item No. E_14064)

Didactum's monitoring units fitted with the 1-wire board, can be equipped with this RFID reader. Use your monitoring system as part of the access control of your sensible infrastructure. In the WebGUI of your monitoring device, you can simply define the desired actions (e.g. switching 12VDC outputs / sending SNMP traps, etc.).



RFID card for access control (item No. E_14065)

This high-quality RFID card enables non-contact authentication of the employee on the RFID card reader. Register these cards in the web interface of the monitoring system and then define the desired action, such as the activation of the connected door lock. The monitoring system can also report the access to server room via SNMP traps or e-mail.



Electronic Key Reader (Item No. E_14063)

Protect your important server room from unauthorized access. Simply connect this electronic key reader with the optional 1-wire board of your remote monitoring device. After successful authentication, the 12VDC outputs of the monitoring system can be switched. At the same time the access to server room or data center can be reported via SNMP traps to building systems or Network Management Systems (e.g. Nagios, OpenNMS, WhatsUp Gold, Zabbix, etc.).



Electronic key / dongle (Item No. E_14062)

This electronic key is equipped with a world-wide unique 64-bit key code. The key code is applied to the dongle by laser engraving. After successful registration, the network enabled Didactum monitoring system can automatically activate connected door locking systems.



Fig.: Protect you infrastructure against unwanted threats such as temperature, dew point formation, water leakage or power failure.



Fig.: In the English-language online store you can order Didactum's networked remote monitoring systems and IP-based sensors. Just visit <http://www.didactum-security.com/en> for more details.

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