

Comparison Didactum® Remote Monitoring Units

Status of the information shown is 10/15/2019. Firmware release "2.7.4. b603" with kernel update from 09/10/2019 installed. The data shown in the tables is not part of the offer. It serves only comparison purposes of the individual device types. Design and equipment are subject to change without notice. All information is given without guarantee. Errors excepted. The equipment of the Didactum® Monitoring Systems may differ depending on the device type, model variant and country. For reasons of continuous product optimization, the manufacturer Didactum® may change technical data, equipment, colors, options and accessories at any time. For more information on the currently available Didactum® remote monitoring & control units, model variants, equipment and scope of delivery, please contact your local distributor or dealer.

General Information:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Item number(s)	14101/14013	14002/14400	14000/14004	14003	14005/14199	14109
EAN Code(s)	EAN 0720089660345	EAN 0720089660321	EAN 072008965802	EAN 0720089659127	EAN 0720089659462	EAN 720089658519
Warranty: 2-year bring-in (pls see website for details)	•	•	•	•	•	•
Optional warranty extension (pls see website for details)	♦	♦	♦	♦	♦	♦
Multilingual Technical and Customer support	•	•	•	•	•	•
Made in E.U.	•	•	•	•	•	•
HS Code	847150000	847150000	847150000	847150000	847150000	847150000
Control: Web interface, SNMP, manual via SMS remote command (GSM/LTE modem required)	•	•	•	•	•	•
Multilingual web interface (DE/EN/FR/IT/ES/KOR/PT/PL/RU/TR)	•	•	•	•	•	•
Additional language support (optional)	•	•	•	•	•	•
Free Firmware & Kernel Updates (Internet)	•	•	•	•	•	•
Recovery Tools	•	•	•	•	•	•
Didactum SNMP MIB Files (Download in WebGUI)	•	•	•	•	•	•
Nagios & Zabbix Plugins	•	•	•	•	•	•
Nagios GSM / LTE Modem Plugin	•	•	•	•	•	•

• Included □ Not available ♦ Optional extras

Overview:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Interface: Access via web browser	•	•	•	•	•	•
LAN: Ethernet 10/100 Mbit	•	•	•	•	•	•
Hardened Linux OS	•	•	•	•	•	•
RAM:	1Gb	1Gb	64Mb	64Mb	64Mb	64Mb
Active CPU cooler or case fans	□	□	□	□	□	□
CPU	ARM	ARM	ARM	ARM	ARM	ARM
CPU Speed:	1 GHz	1 GHz	300mHz	300mHz	300mHz	250mHz
Integrated dock with NTP time synchronization	•	•	•	•	•	•
Integrated watchdog timer function	•	•	•	•	•	•
Support for Didactum expansion units	•	•	•	•	•	□
Support of digital multi-sensors	•	•	•	•	•	□
Sensor Auto Identification	•	•	•	•	•	•
SNMP OID for Didactum sensors	•	•	•	•	•	•
Sensor Disconnect Alarm	•	•	•	•	•	•
Max. number of logics, rules & automatic actions for notifications, alarms, triggers, timers, sensors, dry contacts & relays	max. 2.000	max. 2.000	max. 500	max. 500	max. 500	max. 400

Network Protocols:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Network Protocols: DHCP; HTTP(S); DynDNS; LDAP;	•	•	•	•	•	•
SNMP v1, v2c, v3 (encrypted) Support	•	•	•	•	•	•
VPN: secure data communication; connection change between LTE (to be ordered separately) and LAN	•	•	•	•	•	□
SSH support	•	•	□	□	□	□

Notifications / Alarms / Automatic Actions:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Alarm types: E-Mail, FTP, SMTP, SNMP, SMS, SYSLOG, Web-to-SMS, WebGUI	•	•	•	•	•	•
Actuator function (e.g. switching of optional alarm sirens)	•	•	•	•	•	•
Integrated alarm card (sensor mapping)	•	•	•	•	•	•
Send video recording (optional camera required)	•	•	•	•	•	•
Max. number of e-mail recipients	100	100	15	15	15	10
Max. number of SMS recipients	100	100	10	10	10	10
Didactum macro function for individual alarms	•	•	•	•	•	•

Virtual Sensors:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Built-in PING function	•	•	•	•	•	•
Video images from up to 4 IP cameras (optional)	•	•	•	•	•	•
SNMP GET (v1/2c) support	•	•	•	•	•	•
Access control via RFID reader (to be ordered separately)	•	•	•	•	•	•
Integrated logics for automatic actions on occurrence of events / sensor status changes	•	•	•	•	•	•
Timer function: Allows you to schedule events and actions in the remote monitoring device	•	•	•	•	•	•
Trigger function: Automatic triggering of defined actions	•	•	•	•	•	•

• Included □ Not available ♦ Optional extras

LED status indicators:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
LED status lights	•	•	•	•	•	•
HDD / SSD Status LEDs	•	•	□	□	□	□

• Included □ Not available ♦ Optional extras

Power supply:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Power AC models	90-230V	90-230V	90-230V	12V Power Supply	12V Power Supply	12V Power Supply
Power DC models	48V (600-DC)	48V (700DC)	24-48V (500 DC)	□	12V od. 24-48VDC	□
Fuse	2A	2A	1A	□	□	□
Max. power consumption (typ.)	30W	36W	12W	12W	10W	6W
Max. switching capacity of integrated relay:	10A	10A	10A	250mA	250mA	250mA
Input for backup power supply	□	□	•	□	□	□

• Included □ Not available ♦ Optional extras

Connections Main Monitoring unit I:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Sensor Connections Main Unit	8	8	8	8	4	2
Dry Contacts (potential-free) inputs on main unit	16	16	4	4	4	2
CAN Bus Port for CAN units & digital multi sensors	•	•	•	•	•	□
Max. number of CAN units & digital sensors	20	20	8	8	8	□
Support of Dry Contact Units (optional equipment)	•	•	•	•	•	□
Support of Sensor Expansion Units (optional equipment)	•	•	•	•	•	□
Modbus-RTU Support (optional equipment)	♦	♦	♦	♦	♦	♦
Audio input	1	1	□	□	□	□
Video input	1	1	□	□	□	□
1-Wire port for access control / 1-Wire sensors	1	1	♦	♦	♦	♦

• Included □ Not available ♦ Optional extras

Connections Main Monitoring unit II:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Ethernet connection: 10/100Mbit	•	•	•	•	•	•
USB 2.0 Type A: (for optional USB camera or USB memory stick or Modbus RTU adapter)	1	1	□	□	□	□
USB 2.0 Mini A: (for optional USB camera or USB stick or Modbus RTU adapter)	1	1	1	1	1	1
Reset switch Front panel	•	•	•	•	•	•
Recovery DIP Switch	□	□	•	•	•	•
Video surveillance (optional equipment)	AV, USB, 4xIP	AV, USB, 4xIP	USB, 4xIP	USB, 4xIP	USB, 4xIP	USB, 4xIP

• Included □ Not available ♦ Optional extras

External Storage Options:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Integrated SD card reader for SD cards (64GB max) for data logger, Syslog (SD card separately available)	•	•	•	•	□	□
SATA drive: 2.5" HDD or SSD (sold separately)	♦	♦	□	□	□	□

• Included □ Not available ♦ Optional extras

Inputs Monitoring Unit:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Sensor Connections Main Unit	8	8	8	8	4	2
Dry Contacts (potential-free) inputs on main unit	16	16	4	4	4	2
CAN Bus Port for CAN units & digital multi sensors	●	●	●	●	●	□
Max. number of CAN units & digital sensors	20	20	8	8	8	□
Support of Dry Contact Units (optional equipment)	●	●	●	●	●	□
Support of Sensor Expansion Units (optional equipment)	●	●	●	●	●	□
Modbus-RTU Support (optional equipment)	◆	◆	◆	◆	◆	◆
Audio input	1	1	□	□	□	□
Video input	1	1	□	□	□	□
1-Wire port for access control / 1-Wire sensors	1	1	◆	◆	◆	◆

● Included □ Not available ◆ Optional extras

Outputs Monitoring Unit:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Relays: bistable relays 240V, 10A	2	2	◆	□	□	□
Relays: 12V 0.25A	2	2	2	2	2	2
Max. dry contact outputs main unit (optional equipment)	8	24	□	□	□	□
Dry contact sensor (optional)	◆	◆	◆	◆	◆	◆
Audio output	1	1	□	□	□	□
Video input	1	1	□	□	□	□

● Included □ Not available ◆ Optional extras

Integrated Sensors:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Onboard temperature sensor	●	●	●	●	●	●
Onboard DC voltage sensor	●	●	●	●	●	●
Onboard CPU voltage sensor	●	●	□	□	□	□

● Included □ Not available ◆ Optional extras

Extensions (must be ordered separately):

Didactum Monitoring System	600	700	500 II	400	100 IV	50
1-Wire Board for 1-Wire sensors or RFID card reader	1	1	◆	◆	◆	◆
Modbus RTU module	◆	◆	◆	◆	◆	◆
Modbus-RTU USB Adapter	◆	◆	◆	◆	◆	◆
Dry Contact Board 40	◆	◆	□	□	□	□
SATA drive: 2.5" HDD or SSD	◆	◆	□	□	□	□

● Included □ Not available ◆ Optional extras

Modems (must be ordered separately):

Didactum Monitoring System	600	700	500 II	400	100 IV	50
4G LTE modem ind. 1x LTE antenna (optional). Second LTE antenna available (extra charge).	◆	◆	◆	◆	◆	□
GPS Modem (only with LTE Modem)	◆	◆	◆	◆	◆	□
GSM modem ind. angle antenna	◆	◆	◆	◆	◆	USB Modem
Optional weatherproof outdoor antenna	◆	◆	◆	◆	◆	□
Supported modem operating modes: Gateway: Internet access via Didactum unit for other devices in the network Access: Internet access via LTE SMS: Sending SMS notifications and receiving SMS command functions	Gateway / Access / SMS	Gateway / Access / SMS	Access / SMS	Access / SMS	Access / SMS	SMS

● Included □ Not available ◆ Optional extras

Web Interface (Overview):

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Access: Three-level access with login	•	•	•	•	•	•
Multilingual web interface	•	•	•	•	•	•
Integrated measurement data visualization	•	•	•	•	•	•
Sensor Warning & threshold values: Low Alarm / Low Warning / Normal / High Warning / High Alarm	•	•	•	•	•	•
Data export: XML, CSV, RSS feed, TXT logs, system settings	•	•	•	•	•	•
Setup Wizard: Language, Time, Network, SNMP, User	•	•	•	•	•	•

• Included □ Not available ♦ Optional extras

Web Interface Control Panels (excerpt):

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Dashboard	•	•	•	•	•	•
Sensors and devices are displayed in a tree structure	•	•	•	•	•	•
Dry Contact inputs control panel	•	•	•	•	•	•
Dry Contact outputs control panel	•	•	□	□	□	□
12V DC relay outputs control panel	•	•	•	•	•	•
Bistable relays control panel	•	•	•	□	□	□
Event log display	•	•	•	•	•	•
Display of logic schemes	•	•	•	•	•	•
Display of video cameras (optional equipment)	•	•	•	•	•	•
Floor plan (Sensor Mapping):	•	•	•	•	•	•
User administration: three-level hierarchy (read/write)	•	•	•	•	•	•
Access control (optional equipment needed)	•	•	•	•	•	•
Configuration panel for extension units	•	•	•	•	•	□
Multi-graphic panel: visualisation of multiple sensors in a single diagram	•	•	•	•	•	•

• Included □ Not available ♦ Optional extras

Additional information:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Housing	19" 1HE	19" 2HE	19" 2HE	Desktop	Desktop	Desktop
Dimensions (mm)	440x44x80	440x88x80	440x44x80	200x44x80	180x35x80	95x35x80
19" Rack Mount Kit included in delivery	•	•	•	♦	♦	□
Metal housing	•	•	•	•	•	•
Housing colour RAL 9005 (deep black)	•	•	•	•	•	•
Grounding connector	•	•	•	•	•	•
DIN rail mounting kit (optional equipment)	□	□	□	♦	♦	♦
Universal mounting bracket (optional equipment)	□	□	□	♦	♦	♦
Weight (net):	2 kg	3 kg	1,5 kg	1,0 kg	0,7 kg	0,4 kg

• Included □ Not available ♦ Optional extras

Operating environment:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Permissible operating temperature: 0 to +85 °C	•	•	•	•	•	•
Permissible humidity: 0 to 90% RH (non-condensing)	•	•	•	•	•	•
Storage: 0 to +85 °C at 0 to 90% RH (non-condensing)	•	•	•	•	•	•
Maximum operating altitude above sea level	2.800m	2.800m	2.800m	2.800m	2.500m	2.000m

• Included □ Not available ♦ Optional extras

Standards & Guidelines:

Didactum Monitoring System	600	700	500 II	400	100 IV	50
Council Directive 2006/95/EC (LVD)	●	●	●	●	●	●
Council Directive 2004/108/EC (EMC)	●	●	●	●	●	●
EN 60950-1:2006	●	●	●	●	●	●
EN 61326-1:2006	●	●	●	●	●	●
EN 61000-4-2:1995	●	●	●	●	●	●
EN 61000-4-3:2006	●	●	●	●	●	●
EN-61000-4-4:2005	●	●	●	●	●	●
EN-61000-4-5:2006	●	●	●	●	●	●
EN-61000-4-6:2007	●	●	●	●	●	●
EN-61000-4-11:2004	●	●	●	●	●	●

● Included □ Not available ◆ Optional extras

Scope of delivery (model & equipment dependent)

Didactum Monitoring System	600	700	500 II	400	100 IV	50
EC Declaration of manufacturer	●	●	●	●	●	●
Quick Start Guide	●	●	●	●	●	●
Quick Install Guide	●	●	●	●	●	●
Warranty registration card	●	●	●	●	●	●
1x USB Memory Stick with Plugins, Tools, Utilities	●	●	●	□	□	□
RJ45 network cable (1m) (1x)	●	●	●	●	●	●
IEC power cable (IEC C13) (1x)	item No. 14001 only	item No. 14002 only	item No. 14000 only	□	□	□
External power supply (EU version)	□	□	□	●	item No. 14005 only	●
1x USB 2.0 adapter, type Mini B-A M/F, 0,2m	●	●	●	●	●	●
1x Antenna (LTE or GSM modem required)	◆	◆	◆	◆	◆	□
1x 19" Rack-Mount Kit for Cabinet Mounting	●	●	●	◆	◆	□
1x Temperature Sensor item No. 14010*	□	□	●	●	nur Art.Nr. 14005	●
Rubber feet set for desktop table mounting	●	●	●	●	●	●
Connection plug set for dry contact inputs	●	●	●	●	●	●
Connection plug set for dry contact switching	◆	◆	□	□	□	□
Set of connectors for bi-stable relays*	●	●	●	□	□	□
Set connector plug for 12V DC switching outputs	●	●	●	●	●	●

● Included □ Not available ◆ Optional extras

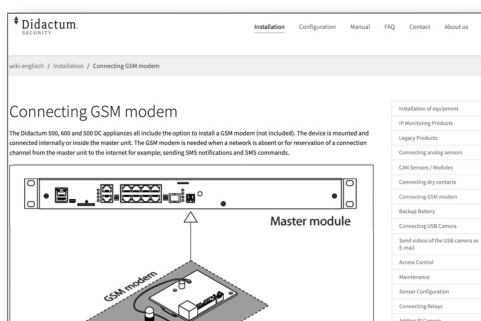


Fig.: On the website <https://www.monitoring-hardware.com/> instructions for the SNMP-based remote monitoring & control systems of the manufacturer Didactum[®] are offered.

Integration of Didactum Monitoring Systems in Network Management Systems (NMS)

Customers use the SNMP-enabled Didactum monitoring devices under the following software (excerpt):

- AccelOps
- AdRem NetCrunch
- AggreGate Network Manager
- CA Spectrum
- Cacti
- Centina Systems NetOmnia
- Collectd
- Dhyam Network Management System
- Ganglia Monitoring System
- GroundWork
- HP Network Node Manager
- IBM Tivoli
- Icinga
- InterMapper
- IPhost Network Monitor
- Kaseya Network Monitor
- LiveAction QoS Monitor
- Monitorix
- MRTG
- Munin
- Nagios
- NetXMS
- NeutralStar
- Observium
- OpenNMS
- OpManager
- Opmantek NMIS
- OSI NetExpert
- PRTG
- SevOne
- Shinken
- Solarwinds
- Spiceworks
- TcIMon
- Verax NMS
- WhatsUp Gold
- Xymon Monitor
- Zabbix
- Zenoss

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