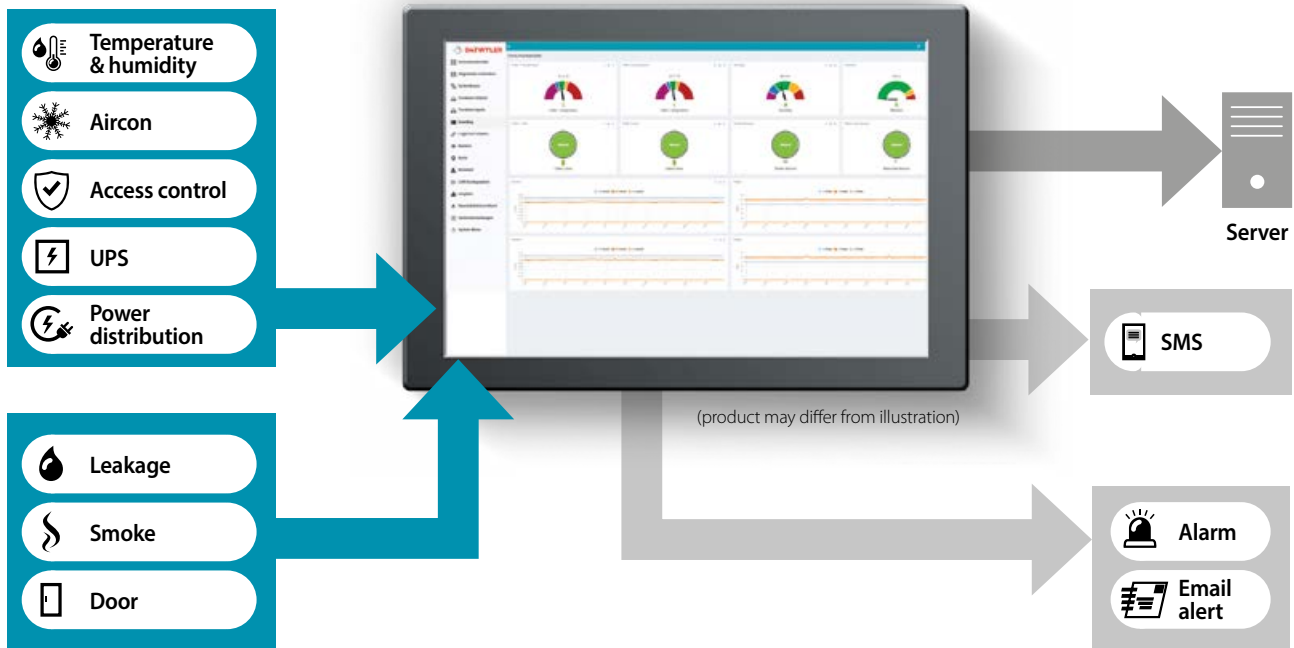# MICRO AND MINI DATA CENTRE

DIMS - DATWYLER INFRASTRUCTURE MONITORING SYSTEM

The Datwyler Infrastructure Monitoring System (DIMS) provides a top level as well as a detailed overview of the status of IT infrastructure housed within a Micro and Mini Data Centre. The system is characterized by real time remote monitoring of environmental conditions, access and energy consumption of IT infrastructure devices and systems. In case of faults or emergencies the system is capable of alerting the user to take timely and necessary action to protect the mission critical IT systems.

System architecture

Real-time monitoring

Openness & flexibility

Alarm notification

Reports & graphs

Temperature & humidity

Aircon

Access control

UPS

Power distribution

Leakage

Smoke

Door

(product may differ from illustration)

Server

SMS

Alarm

Email alert

DIMS features

. Multilingual Web GUI with integrated logic
. SNMP enabled ports for auto detection of sensors
. User access management
. Integrated interfaces: Ethernet, USB, CAN, analog & digital
. Provides notifications and alerts such as E-mail, SMS and SNMP traps
. Extensive range of sensors for environmental monitoring,
  security control and power monitoring
. USB interface for video camera
. SD card slot for optional SD card (max. 64 GB)
. Sim card slot for optional LTE modem
. Alarms for maintenance and critical events
. Graphical representation of environmental data

Subject to technical modification.

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RACK MONITORING SYSTEM

DIMS 300	Article no.	Description	PU
	41847300ZY	DIMS 300 is a tried and tested monitoring system which can be used in all branches of industry for the continuous measurement, recording and reporting of performance-critical environmental factors in a rack. It combines the most advanced hardware and software. Robust metal housing in 19 inch format. Internal 230 volt power supply. 8 auto-sensing RJ12 ports for attaching sensors. Can be extended with additional sensor ports or digital inputs via CAN port. Alarm messages possible via bistable relays. Can be integrated into SNMP-compatible management software on request.	1 pc.

Further features:
- 1x CAN port for extensions or CAN sensors
- 12x bistable relay ports (dry contact)
- 2x 12V DC / 0.25A relays
- 2x bistable relays with status LEDs, max. 250V AC / 10A
- 1x 12V DC connection for backup battery
- 1x 2.0 HS mini USB slot for USB video camera or USB memory stick
- 1x internal temperature sensor for controlling excessive temperature
- 100 MBit Ethernet port
- External earthing point
- LEDs: power, relays, alarm, CAN
- Front restart button
- Network protocols: DHCP, HTTP, HTTPS, SSL, SNMP, SNMP Get, SMTP, SSL, FTP, Syslog, Radius, TLS
- Functions: timer, ping, trigger, alarm filter, virtual sensors via SNMP Get
- Types of alarm: FTP, Syslog, SMTP, SNMP Trap
- Multilingual Web interface

DIMS 200	Article no.	Description	PU
	41847200ZY	DIMS 200 ist ein branchenübergreigend einsetzbares, praxiserprobtes Monitoring-System zur DIMS 200 is a tried and tested monitoring system which can be used in all branches of industry for the continuous measurement, recording and reporting of performance-critical environmental factors in a rack. It combines the most advanced hardware and software. Robust metal housing. 12 volt plug-in power supply. 4 auto-sensing RJ12 ports for attaching sensors. Can be extended with additional sensor ports or digital inputs via CAN port. Alarm messages possible via bistable relays. Can be integrated into SNMP-compatible management software on request.	1 pc.

Further features:
- 1x CAN port for extensions or CAN sensors
- 4x bistable relay ports (dry contact)
- 2x 12V DC / 0.25A relays
- 1x 2.0 HS mini USB slot for optional USB video camera or USB memory stick
- 1x internal temperature sensor for controlling excessive temperature
- 100 MBit Ethernet port
- External earthing point
- LEDs: power, relays, alarm, CAN
- Front restart button
- Network protocols: DHCP, HTTP, HTTPS, SSL, SNMP, SNMP Get, SMTP, SSL, FTP, Syslog, Radius, TLS

SENSORS (SELECTION)

DIMS sensors	Article No.	Type	Description				PU
	41847900ZY	DIMS door sensor	Sensor for door monitoring in critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.				1 pc.
			Connection:	at sensor port	Cascadable:	yes	
			Auto-sense:	yes	Extendable:	up to 150 m	
			Area of application:	in-house	Operating temp.:	-10 to + 80 °C at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x connection cable (2 m), 2x 4.8 × 16 mm screw for fastening, 2x double-sided tape			
	41847700ZY	DIMS temperature sensor	Sensor for temperature monitoring in critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.				1 pc.
			Connection:	at sensor port	Cascadable:	no	
			Auto-sense:	yes	Extendable:	up to 100 m	
			Measurement accuracy:	± 0.5 °C	Operating temp.:	-45 to + 105 °C at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x 4-wire RJ11 cable (2 m), 1x 4.8 × 16 mm screw for fastening, 1x double-sided tape			
	41847800ZY	DIMS air humidity sensor	Sensor for air humidity monitoring in critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.				1 pc.
			Connection:	at sensor port	Cascadable:	no	
			Auto-sense:	yes	Extendable:	up to 50 m	
			Measurement accuracy:	± 5%	Measuring range:	10-95% relative air humidity (RH)	
			Area of application:	in-house	Operating temp.:	-10 to + 80 °C at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x 4-wire RJ11 cable (2 m), 1x 4.8 × 16 mm screw for fastening, 1x double-sided tape			
	41848500ZY	DIMS smoke detector	Smoke detector/fire alarm for indoor installation to monitor critical environments and racks. All detectors can be connected in series. A network of up to 10 detectors can be set up.				1 pc.
			Connection:	at sensor port	Cascadable:	yes (up to 10)	
			Auto-sense:	yes	Extendable:	up to 150 m (smoke detector chain)	
			Area of application:	in-house	Ambient temp.:	0 to + 70 °C at 5% to 95% RH	
			Dimensions:	Ø 100 mm x 45 mm	Status indication:	LED (red)	
			Scope of delivery:	1x smoke detector, 1x RJ11 connection cable, 1x mounting material			
	41848600ZY	DIMS vibration sensor	Sensor for vibration monitoringin critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.				1 pc.
			Connection:	at sensor port	Cascadable:	yes	
			Auto-sense:	yes	Extendable:	up to 145 m (entire sensor chain)	
			Area of application:	in-house	Operating temp.:	-10 to + 80 °C at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x RJ11 connection cable (2 m), 1x mounting material			
	41848000ZY	DIMS leakage sensor	Sensor for leakage monitoring in critical environments and racks. The connection is made via a free sensor port and is automatically recognized by the system.				1 pc.
			Connection:	at sensor port	Cascadable:	no	
			Auto-sense:	yes	Extendable:	up to 100 m	
			Area of application:	in-house	Response time:	1 sec	
			Reset time:	1 sec	Operating temp.:	-10 to + 80 °C at 5% to 95% RH	
			Scope of delivery:	1x sensor, 1x connection cable (2 m), 1x mounting material			

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