



HW group

Promo materials 2019



PORTFOLIO

Promo materials

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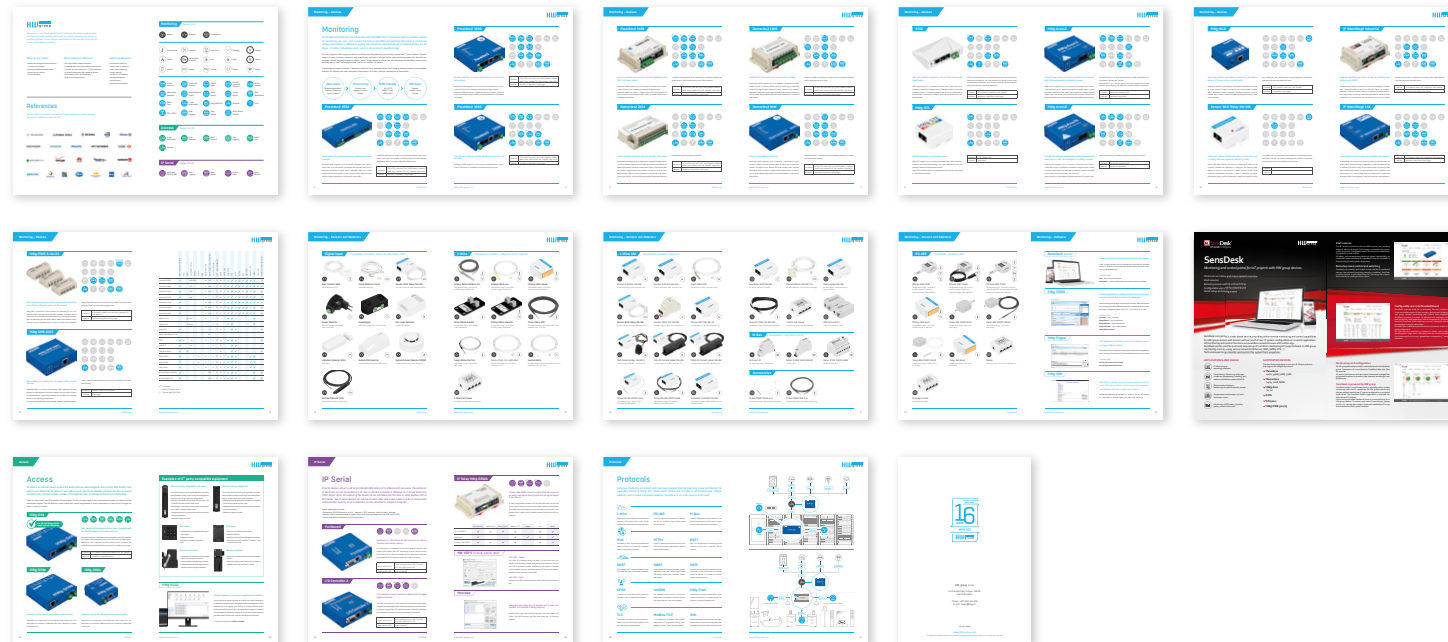


Overview Catalog (210×297 mm)

Product Overview



Cover



28 pages

Flyer A4 (210×297 mm)

Poseidon2 3266

Cost-effective model for remote monitoring of sensors and detectors

- 1-Wire I/O sensors
- Digital input
- SNMP trap
- E-mail notification
- MQTT protocol

Poseidon2 3266 supports up to **8 sensors** connected over 1-Wire I/O / 1-Wire and up to **4 detectors** connected to digital inputs.

A built-in **web server** is used for configuring. The device can be monitored remotely over the Internet using the free **SmartSense control** in combination with the **SmartSense Mobile applications for iOS and Android**. It works with **SNMPv3** and **HTTP-Trigger**.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MQM protocols (HTTPs, IPv6, SNMPv3)**. With support for over **50 SNMP** and **SCADA** applications, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. **MQTT** protocol enables integration in IoT solutions.

A sensor value out of a set value range as well as a DI state change sends an alert by e-mail, SMS, SNMP Trap, or activates a remote relay in another Poseidon2 or Damocles2 unit.

Compatible with a wide range of third party I/O (SCADA, etc.).

With the **SmartSense SCADA200** I/O module can be converted to cost per line serial and reported to MS Excel.

Examples for programmers on using the product are available in the **SmartSense** (SmartSense Co., MS, Russia, VL, CR, PIR, JANK, and more).

Connected via LAN. Configuration via built-in web server.

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluetooth, their status even after power failure.

For Ring or SMS alarm use the **SmartSense** (SmartSense Co., MS, Russia, VL, CR, PIR, JANK, and more).

All inputs feature 32-bit pulse counters that retain their status even after power failure.

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluetooth, their status even after power failure.

Examples for programmers on using the product are available in the **SmartSense** (SmartSense Co., MS, Russia, VL, CR, PIR, JANK, and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Damocles2 units on the same LAN.

HWgroup S.A. | Poseidon2 3266 | Pagina: 1/10 | EN | 0383 936310 | Phone: +49 920 361 568 | www.hw-group.com

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Typical application examples

- Remote environmental monitoring in a cabinet, server room or a datacenter
- UPS / back-up generator monitoring
- Industrial applications
- HVAC monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

Poseidon2 model comparison

Parameter	3266	3268	3268S	3268T	3268TS
Inputs	1-Wire I/O: 8 DI: 4	8	8	4	8
Outputs	DI: 4 Relay: 2 (V.I.A.)	2	2	2	2
Power	0-34V -4V	✓	✓	✓	✓
Power	10W LAN: RS-485	✓	✓	✓	✓

Configuration interface

Versions and related products

- Poseidon2 3266: Remote device
- Poseidon2 3268: Includes a temperature and humidity sensor, door contact and a power detector
- Poseidon2 4022: Test module for temperature sensors, air control and a power detector
- Poseidon2 3468: Test module for temperature sensor and a power detector
- Poseidon2 3268 Test: Includes a temperature sensor, door contact and a power detector
- HWgroup-SMS-3268: SMS gateway for LAN and SMS devices in LAN includes gateway and a power detector

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Poseidon2 3268

Remote monitoring of sensors and detectors and control of relay outputs

- 1-Wire I/O sensors
- Digital input
- Relay output
- Virtual output
- SNMP trap
- E-mail notification
- MQTT protocol

Poseidon2 3268 supports up to **8 sensors** connected over 1-Wire I/O / 1-Wire and up to **4 detectors** connected to digital inputs. Poseidon2 3268 can control **2 digital NO/NC relay outputs**, as well as up to **8 virtual digital outputs (VDO)** at remote Poseidon2 or Damocles2 units (MQM).

A built-in **web server** is used for configuring. The device can be monitored remotely over the Internet using the free **SmartSense control** in combination with the **SmartSense Mobile applications for iOS and Android**. It works with **SNMPv3** and **HTTP-Trigger**.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MQM protocols (HTTPs, IPv6, SNMPv3)**. With support for over **50 SNMP** and **SCADA** applications, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. **MQTT** protocol enables integration in IoT solutions.

Connected via LAN. Configuration via built-in web server.

All inputs feature 32-bit pulse counters that retain their status even after power failure.

Compatible with a wide range of third party I/O (SCADA, etc.).

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluetooth, their status even after power failure.

With the **SmartSense SCADA200** I/O module can be converted to cost per line serial and reported to MS Excel.

Examples for programmers on using the product are available in the **SmartSense** (SmartSense Co., MS, Russia, VL, CR, PIR, JANK, and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Damocles2 units on the same LAN.

For Ring or SMS alarm use the **SmartSense** (SmartSense Co., MS, Russia, VL, CR, PIR, JANK, and more).

All inputs feature 32-bit pulse counters that retain their status even after power failure.

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluetooth, their status even after power failure.

Examples for programmers on using the product are available in the **SmartSense** (SmartSense Co., MS, Russia, VL, CR, PIR, JANK, and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Damocles2 units on the same LAN.

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Front page

double sided

Typical application examples

- Remote environmental monitoring in a cabinet, server room or a datacenter
- Remote I/O control and monitoring over the Ethernet
- UPS / back-up generator monitoring
- Industrial applications
- HVAC monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

Poseidon2 model comparison

Parameter	3266	3268	3268S	3268T	3268TS
Inputs	1-Wire I/O: 8 DI: 4	8	8	4	8
Outputs	DI: 4 Relay: 2 (V.I.A.) VDO: 8	2	2	2	2
Power	0-34V -4V PHE: 10W LAN: RS-485	✓	✓	✓	✓
Connected	RS-485	✓	✓	✓	✓

Configuration interface

Versions and related products

- Poseidon2 3266: Remote device
- Poseidon2 3268: Includes a temperature and humidity sensor, door contact and a power detector
- Poseidon2 4022: Test module for temperature sensors, air control and a power detector
- Poseidon2 3468: Test module for temperature sensor and a power detector
- HWgroup-SMS-3268: SMS gateway for LAN and SMS devices in LAN includes gateway and a power detector

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Flyer A4 (210×297 mm)

Poseidon2 3468

Remote monitoring and control for industrial applications with 230 V / 16A relay outputs

- 3-Wire IUM sensors
- Digital input
- Relay output
- Virtual output
- SNMP trap
- E-mail notification
- MQTT protocol
- 48V power

Poseidon2 3468 supports up to **4 sensors** connected via 1-Wire IUM / 1-Wire and up to **4 sensors** connected to digital inputs. Poseidon2 3468 can control **2 digital 230 V / 16 A relay outputs**, as well as up to **4 virtual digital outputs (VDO)** or remote Poseidon2 or Dancolec2 units (ADM).

In addition to the standard 9-30 V power input, Poseidon2 3468 can be powered from 48 V to enable easy use in telecabinets.

A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the free **SecureTask panel** in combination with the **SecureTask Mobile application** for iOS and Android. It works with **HTTP-SNMP** and **HTTP-Trigger**.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MQM protocols (HTTP, IPv6, SNMPv3)**. With support for over **50 SNMP and SCADA applications**, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. **MQTT protocol** enables integration in IoT solutions.

Connected via LAN. Configuration via built-in web server.

All inputs feature 32-bit pulse counters that retain their status even after power failure.

Compatible with a wide range of third party SW (SCADA, etc.).

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Braemar Internet of Things and other cloud services.

With the **SecureTask** software, 20 sensors can be connected to cost per time period and exported to MS Excel.

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

For wiring to SMS alarm via the **SecureTask** software (external GSM modem required, or **4G/LTE** module) in the same LAN.

Examples for programming on using the product are available in the **SecureTask** (for MS Excel, CSV, PHP, Java) and **MQTT** (for MS Excel, CSV, PHP, Java) and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

Examples for programming on using the product are available in the **SecureTask** (for MS Excel, CSV, PHP, Java) and **MQTT** (for MS Excel, CSV, PHP, Java) and more).

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Typical application examples

- Remote environmental monitoring in a cabinet, server room or a datacenter
- Remote I/O control and monitoring over the Ethernet
- UPS / back-up generator monitoring
- Industrial and telecabinets applications
- WAC monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

Typical application examples

- 3-Wire IUM sensors
- Digital input
- Relay output
- Virtual output
- SNMP trap
- E-mail notification
- MQTT protocol

Poseidon2 3468 supports up to **4 sensors** connected via 1-Wire IUM / 1-Wire and up to **4 sensors** connected to digital inputs. Poseidon2 3468 can control **2 digital 230 V / 16 A relay outputs**, as well as up to **4 virtual digital outputs (VDO)** or remote Poseidon2 or Dancolec2 units (ADM).

In addition to the standard 9-30 V power input, Poseidon2 3468 can be powered from 48 V to enable easy use in telecabinets.

A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the free **SecureTask panel** in combination with the **SecureTask Mobile application** for iOS and Android. It works with **HTTP-SNMP** and **HTTP-Trigger**.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MQM protocols (HTTP, IPv6, SNMPv3)**. With support for over **50 SNMP and SCADA applications**, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. **MQTT protocol** enables integration in IoT solutions.

Connected via LAN. Configuration via built-in web server.

All inputs feature 32-bit pulse counters that retain their status even after power failure.

Compatible with a wide range of third party SW (SCADA, etc.).

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Braemar Internet of Things and other cloud services.

With the **SecureTask** software, 20 sensors can be connected to cost per time period and exported to MS Excel.

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

For wiring to SMS alarm via the **SecureTask** software (external GSM modem required, or **4G/LTE** module) in the same LAN.

Examples for programming on using the product are available in the **SecureTask** (for MS Excel, CSV, PHP, Java) and **MQTT** (for MS Excel, CSV, PHP, Java) and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

Examples for programming on using the product are available in the **SecureTask** (for MS Excel, CSV, PHP, Java) and **MQTT** (for MS Excel, CSV, PHP, Java) and more).

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Poseidon2 4002

Secure solution for remote environment monitoring and control of outputs

- 3-Wire IUM sensors
- Digital input
- RS-485 industrial sensors
- Relay output
- Virtual output
- SNMP trap
- E-mail notification
- MQTT protocol

Poseidon2 4002 can connect up to **42 sensors** (8B via 1-Wire IUM / 1-Wire + 2B via RS-485), **12 relays** via digital dry contact outputs (DO), **8 virtual digital outputs** and **4 relay outputs (RDOs)**. Thanks to its strong security combined with wide selection and high number of I/O Poseidon2 4002 is a secure solution for remote environment monitoring and control.

A built-in **web server** is used for configuring. The device can be monitored remotely over the Internet using the free **SecureTask panel** in combination with the **SecureTask Mobile application** for iOS and Android. It works with **HTTP-SNMP** and **HTTP-Trigger**.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MQM protocols (HTTP, IPv6, SNMPv3)**. With support for over **50 SNMP and SCADA applications**, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. **MQTT protocol** enables integration in IoT solutions.

Connected via LAN. Configuration via built-in web server.

All inputs feature 32-bit pulse counters that retain their status even after power failure.

Compatible with a wide range of third party SW (SCADA, etc.).

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Braemar Internet of Things and other cloud services.

With the **SecureTask** software, 20 sensors can be connected to cost per time period and exported to MS Excel.

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

For wiring to SMS alarm via the **SecureTask** software (external GSM modem required, or **4G/LTE** module) in the same LAN.

Examples for programming on using the product are available in the **SecureTask** (for MS Excel, CSV, PHP, Java) and **MQTT** (for MS Excel, CSV, PHP, Java) and more).

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

Examples for programming on using the product are available in the **SecureTask** (for MS Excel, CSV, PHP, Java) and **MQTT** (for MS Excel, CSV, PHP, Java) and more).

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Typical application examples

- Remote environmental monitoring in a cabinet, server room or a datacenter
- Remote I/O control and monitoring over the Ethernet
- UPS / back-up generator monitoring
- Industrial applications
- WAC monitoring
- Cooler and freezer monitoring + alarm indication
- Security and surveillance systems
- Smart buildings

Typical application examples

- 3-Wire IUM sensors
- Digital input
- RS-485 industrial sensors
- Relay output
- Virtual output
- SNMP trap
- E-mail notification
- MQTT protocol

Poseidon2 4002 can connect up to **42 sensors** (8B via 1-Wire IUM / 1-Wire + 2B via RS-485), **12 relays** via digital dry contact outputs (DO), **8 virtual digital outputs** and **4 relay outputs (RDOs)**. Thanks to its strong security combined with wide selection and high number of I/O Poseidon2 4002 is a secure solution for remote environment monitoring and control.

A built-in **web server** is used for configuring. The device can be monitored remotely over the Internet using the free **SecureTask panel** in combination with the **SecureTask Mobile application** for iOS and Android. It works with **HTTP-SNMP** and **HTTP-Trigger**.

Poseidon2 devices are designed to monitor and control sensors and digital I/O over the network using secure **MQM protocols (HTTP, IPv6, SNMPv3)**. With support for over **50 SNMP and SCADA applications**, Poseidon2 devices can be integrated in a wide range of monitoring and control systems. **MQTT protocol** enables integration in IoT solutions.

Connected via LAN. Configuration via built-in web server.

All inputs feature 32-bit pulse counters that retain their status even after power failure.

Compatible with a wide range of third party SW (SCADA, etc.).

MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Braemar Internet of Things and other cloud services.

With the **SecureTask** software, 20 sensors can be connected to cost per time period and exported to MS Excel.

Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

For wiring to SMS alarm via the **SecureTask** software (external GSM modem required, or **4G/LTE** module) in the same LAN.

Examples for programming on using the product are available in the **SecureTask** (for MS Excel, CSV, PHP, Java) and **MQTT** (for MS Excel, CSV, PHP, Java) and more).


Virtual Digital Outputs (VDO) can be mapped to physical digital outputs (relays) of other Poseidon2 or Dancolec2 units on the same LAN.

Examples for programming on using the product are available in the **SecureTask** (for MS Excel, CSV, PHP, Java) and **MQTT** (for MS Excel, CSV, PHP, Java) and more).

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Flyer A4 (210×297 mm)

Damocles2 MINI



Damocles2 MINI
Smart I/O controlled over a LAN

- Digital inputs
- Relay outputs
- Pulse counter
- Web server
- E-mail notifications
- SNMP protocol
- MQTT protocol
- Modbus TCP protocol

Typical application examples

- Remote equipment monitoring
- Smart buildings
- UPS monitoring
- Security and surveillance systems
- Alarm indication
- Energy consumption metering
- Connecting external inputs to SCADA systems

Damocles2 MINI provides 4 digital dry contact inputs. All digital inputs feature 50 pulse counters with a memory to connect water, gas, electricity or other meters. Damocles2 MINI controls 2 digital relay outputs (DO).


A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the SensiDesk portal or the SensiDesk Mobile app. Damocles2 MINI is a compact Ethernet I/O device with enhanced IP security.

Damocles2 devices are designed to monitor and control digital I/O over the network using secure MGM protocols (HTTP, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.


Basic features of Damocles2 devices:

- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- Supports "SMS + Ring" function
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens Internet of Things and other cloud services
- When a DI state changes, the device sends an e-mail, SMS, SNMP Trap, or activates a remote relay at another Damocles2 unit
- With the HWg-PDMS software, DO pulses can be converted to cost per time period and exported to MS Excel
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens Internet of Things and other cloud services
- To send an alarm SMS whenever a DI state changes, use the HWg-Finger software, or a HWg-SMS-GW gateway on the same LAN
- Examples for programming are available in the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more)
- Supports up to 8 virtual digital outputs (VDO) that can be mapped to physical digital outputs (DO)

Configuration interface




Versions and related products



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Typical application examples

- Remote equipment monitoring
- Smart buildings
- UPS monitoring
- Security and surveillance systems
- Alarm indication
- Energy consumption metering
- Connecting external inputs to SCADA systems

Damocles2 MINI provides 4 digital dry contact inputs. All digital inputs feature 50 pulse counters with a memory to connect water, gas, electricity or other meters. Damocles2 MINI controls 2 digital relay outputs (DO).


A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the SensiDesk portal or the SensiDesk Mobile app. Damocles2 MINI is a compact Ethernet I/O device with enhanced IP security.

Damocles2 devices are designed to monitor and control digital I/O over the network using secure MGM protocols (HTTP, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.


Basic features of Damocles2 devices:

- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- Supports "SMS + Ring" function
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens Internet of Things and other cloud services
- When a DI state changes, the device sends an e-mail, SMS, SNMP Trap, or activates a remote relay at another Damocles2 unit
- With the HWg-PDMS software, DO pulses can be converted to cost per time period and exported to MS Excel
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens Internet of Things and other cloud services
- To send an alarm SMS whenever a DI state changes, use the HWg-Finger software, or a HWg-SMS-GW gateway on the same LAN
- Examples for programming are available in the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more)
- Supports up to 8 virtual digital outputs (VDO) that can be mapped to physical digital outputs (DO)

Configuration interface




Versions and related products



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Damocles2 1208



Damocles2 1208
Industrial I/O with enhanced IP security and DC outputs

- Digital inputs
- Open collector outputs
- Pulse counter
- Web server
- E-mail notifications
- SNMP protocol
- MQTT protocol
- Modbus TCP protocol

Typical application examples

- Remote equipment monitoring
- Smart buildings
- UPS monitoring
- Security and surveillance systems
- Alarm indication
- Energy consumption metering
- Connecting external inputs to SCADA systems

Damocles2 1208 provides 12 digital dry contact inputs (DI). All digital inputs feature 50 pulse counters with a memory to connect water, gas, electricity or other meters. Damocles2 1208 controls 8 digital open collector outputs (DO).

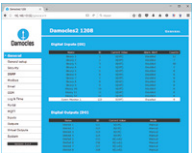
A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the SensiDesk portal or the SensiDesk Mobile app. Damocles2 1208 is an Ethernet I/O device with enhanced IP security and an excellent cost per I/O pin ratio.

Damocles2 devices are designed to monitor and control digital I/O over the network using secure MGM protocols (HTTP, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.


Basic features of Damocles2 devices:

- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- Supports "SMS + Ring" function
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens Internet of Things and other cloud services
- When a DI state changes, the device sends an e-mail, SMS, SNMP Trap, or activates a remote relay at another Damocles2 unit
- With the HWg-PDMS software, DO pulses can be converted to cost per time period and exported to MS Excel
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens Internet of Things and other cloud services
- To send an alarm SMS whenever a DI state changes, use the HWg-Finger software, or a HWg-SMS-GW gateway on the same LAN
- Examples for programming are available in the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more)
- Supports up to 8 virtual digital outputs (VDO) that can be mapped to physical digital outputs (DO)

Configuration interface



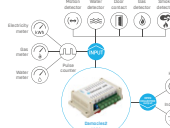
Versions and related products



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Typical application examples

- Remote equipment monitoring
- Smart buildings
- UPS monitoring
- Security and surveillance systems
- Alarm indication
- Energy consumption metering
- Connecting external inputs to SCADA systems

Damocles2 1208 provides 12 digital dry contact inputs (DI). All digital inputs feature 50 pulse counters with a memory to connect water, gas, electricity or other meters. Damocles2 1208 controls 8 digital open collector outputs (DO).

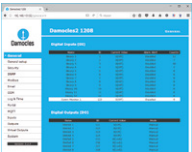
A built-in web server is used for configuring. The device can be monitored remotely over the Internet using the SensiDesk portal or the SensiDesk Mobile app. Damocles2 1208 is an Ethernet I/O device with enhanced IP security and an excellent cost per I/O pin ratio.

Damocles2 devices are designed to monitor and control digital I/O over the network using secure MGM protocols (HTTP, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.


Basic features of Damocles2 devices:

- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- Supports "SMS + Ring" function
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens Internet of Things and other cloud services
- When a DI state changes, the device sends an e-mail, SMS, SNMP Trap, or activates a remote relay at another Damocles2 unit
- With the HWg-PDMS software, DO pulses can be converted to cost per time period and exported to MS Excel
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Siemens Internet of Things and other cloud services
- To send an alarm SMS whenever a DI state changes, use the HWg-Finger software, or a HWg-SMS-GW gateway on the same LAN
- Examples for programming are available in the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more)
- Supports up to 8 virtual digital outputs (VDO) that can be mapped to physical digital outputs (DO)

Configuration interface



Versions and related products




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Flyer A4 (210×297 mm)

Damocles2 2404



Secure Industrial I/O with PoE and telco -48V power options

- Digital inputs
- Relay outputs
- Pulse counter
- Web server
- E-mail notifications
- SNMP protocol
- MQTT protocol
- Modbus TCP protocol

Damocles2 2404 provides 24 digital inputs (DI) for dry contact detectors. All digital inputs feature 50 pulse counters with a memory to connect water, gas, electricity or other meters. Damocles2 2404 controls a digital relay output (DO).

Damocles2 devices are designed to monitor and control digital I/O over the network using secure MQTT protocols (MQTT, IPv6, SNMPv3). With support for over 50 SNMP and SCADA applications, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.

Basic features of Damocles2 devices:

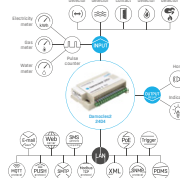
- Web-based configuration
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- Supports "SMS + Ring" function
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT Services, Internet of Things and other cloud services
- To send an alarm SMS whenever a DI state changes, use the HWg-Trigger software, or a HWg-SMS-GW gateway (in the same LAN)
- Examples for programming are available in the HWg-SDK (Bertrand C++, MS Visual, VB, C#, PHP, JAVA and more)
- Supports up to 8 virtual digital outputs (VDO) that can be mapped to physical digital outputs (involving other Damocles2 units on the network)

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double sided

Typical application examples

- Remote equipment monitoring
- Smart buildings
- UPS monitoring
- Security and surveillance systems
- Alarm indication
- Energy consumption metering
- Connecting external inputs to SCADA systems




Supported protocols

HTTP/HTTPS	Alert redirection to SMS, ping-pong messages, SIP, monitoring
HWg-PDMS	Logging of values, graphs, reports to MS Excel
Other software	Thermostats, software, HWg-SDK

Dimensions / notes

Dimensions	170x60x130 mm
Weight	400 g


Configuration interface



Main changes in the 2nd generation

Enhancement of 1st gen	1st generation Damocles2	Damocles2 2404
Advanced DI filter	X	✓
SNMPv3	X	✓
HWg-PDMS (extended graph)	X	✓
Extended SNMP (SIP status)	X	✓
Virtual Output (SMS)	X	✓
Advanced SMS status	X	✓
SMTP	X	✓
MQTT (not standard)	X	✓
Group status	X	✓

Versions and related products



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STE2



WiFi / Ethernet thermometer with DI inputs

- Temperature
- Humidity
- Digital inputs
- E-mail alert
- SNMP
- TLS
- PoE
- Web Server
- HWg Push

STE2 is a device that supports SNMP designed for temperature and humidity measurements from external sensors and the ability to connect to the Internet via standard cable or Wi-Fi. When the permitted range of values is exceeded the device allows alarm messages to be sent by e-mail (TLS), the SensDesk portal (HWg Push). The package includes a power adapter and temperature sensor.

Air-conditioning failure
Changes in temperature point to a failure of an A/C unit.

HVAC supervision
Remote control of HVAC, email alert, or SMS (e-mail+SMS+HWg-SMS-GW).

Heating optimisation
Remote monitoring of a heating system, alert by e-mail or SMS to the danger of frost. (e-mail+SMS).

Monitoring of refrigerator or freezer
Sends e-mail in the refrigerator logs. Logs operating and storage conditions.

Food storage
Oversees optimal storage conditions. Using application software, you can create HACCP protocols.


Front page

double sided

Key features:

- Includes standard Ethernet and Wi-Fi - 802.11 b/g/n (2.4GHz)
- Supports simultaneous operation of Ethernet and Wi-Fi (for easy configuration)
- 5V power supply or PoE
- Simple installation, supports DHCP
- Built-in WEB server - no need for software other than a standard Web browser
- SMS connectivity (SNMP MIB)
- Sends e-mail at too high / low temperature
- Support for TLS authentication (Email)
- Security password-protected
- Supplied with Windows software HWg-PDMS for graphing and data export to MS Excel

Package contents:



Specifications:

Connectivity	Ethernet: IPv4 (DHCPv4), supports PoE (IEEE 802.3af)
Wi-Fi	Internal antenna, 2.4GHz, 802.11 b/g/n
Web	Built-in web server
SNMP	Version 1, IPv4, read-only, same ports of version 2
External sensors	
Temperature	1x 1-Wire (1-wire 1-wire), 1-wire (1-wire)
Humidity	2x I2C (1-wire), 1-wire (1-wire)
Alarm	Email, HWg Push, SMS (with extensions of HWg-SMS-GW)
Configuration	
Web protocols	HTTP, HTTPS
Alerts	Email, HWg Push, SMS (with extensions of HWg-SMS-GW)
Supported software	
HWg-PDMS	Redirection of alarms to SMS, Mail, MS, Microsoft SQL
HWg-PDMS	Logging, graphs, reports to MS Excel
Other software	3rd side software, HWg-SDK
Physical	
Power supply	5V / 500mA (max) or 12.5V (max) @ 0.35A (max)
Temperature	Operating: 0°C - 50°C / 32°F - 122°F
Humidity	Storage: 10% - 90% / 5% - 95% RH
Dimensions	65x40x30 mm
Weight	500g

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Flyer A4 (210×297 mm)

HWg-Ares 10



Ares 10

Low-cost GSM thermometer with remote management and alarming via calls, texts or e-mail

- 3-Wire sensors
- Digital inputs
- SMS notifications
- E-mail notifications
- Data logging
- USB data port
- SensDesk portal
- XML interface

Typical application examples

- Electricity distribution networks (transformer stations, lines)
- Water source monitoring, including technical equipment status
- Agricultural premises (greenhouses, granaries, etc.)
- Road, highway, or railroad technology
- Temperature and thermal expansion of structures
- Diesel generators - environment and status monitoring

Key features

- Using regular GSM networks - 1-Wire & 3-Wire bus
- RS485 (2-Wire Bus)
- Up to 2 sensors
- Sensor distance: up to 500m

Typical inputs

Power: 5 V DC

Type: Digital Input (Supports NO/NC Dry contact)

Capacity: 1-1000 mA (High up to the internal block can be converted to 12V GND)

Max. distance: No restriction

Power input

Power: 0-120V AC

Type: Main device power input (Supports 220VAC)

Capacity: 2-wire (Power, 2-wire bus, 2-wire)

Physical parameters

Temperature range: Operating: 5 to +50°C (41 to +122°F)
Storage: -20 to +70°C (-4 to +158°F)

Dimensions / Weight: 76x53x28 mm / 100g

IP65

App: Android, iOS, Windows, Linux, etc.

Configuration interface

Web-based interface for configuration and monitoring.

Differences between Ares 10 vs. Ares 12


1-Wire 485 sensors	Ares 10	Ares 12
External Relay Output compatible	X	✓
Battery	X	✓

Versions and related products

- Ares 10 plain
- Ares 12 set
- Ares 10
- Converter 2-wire/485
- Back-up UPS

Front page

double sided



Ares 10

Low-cost GSM thermometer with remote management and alarming via calls, texts or e-mail

- 3-Wire sensors
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Dimensions / Weight: 76x53x28 mm / 100g

IP65

App: Android, iOS, Windows, Linux, etc.

Configuration interface

Web-based interface for configuration and monitoring.

Differences between Ares 10 vs. Ares 12


1-Wire 485 sensors	Ares 10	Ares 12
External Relay Output compatible	X	✓
Battery	X	✓

Versions and related products

- Ares 10 plain
- Ares 12 set
- Ares 10
- Converter 2-wire/485
- Back-up UPS

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HWg-Ares 12



Ares 12

Industrial measuring and monitoring for 14 sensors, communication over GSM and back-up power

- Battery
- 3-Wire sensors
- Digital inputs
- SMS notifications
- E-mail notifications
- Data logging
- USB data port
- SensDesk portal

Typical application examples

- GPS monitoring of machines and their environment
- ATMs - environment monitoring without tampering with the connection
- Art exhibits and diagnostics
- Storage of food or materials
- Cooling systems and coolers

Key features

- Using regular GSM networks - 3-Wire & 4-Wire bus
- RS485 (2-Wire Bus)
- Up to 14 sensors
- Sensor distance: up to 500m

Typical inputs

Power: 5 V DC

Type: Digital Input (Supports NO/NC Dry contact)

Capacity: 1-1000 mA (High up to the internal block can be converted to 12V GND)

Max. distance: No restriction

Power input

Power: 0-120V AC

Type: Main device power input (Supports 220VAC)

Capacity: 2-wire (Power, 2-wire bus, 2-wire)

Physical parameters

Temperature range: Operating: 5 to +50°C (41 to +122°F)
Storage: -20 to +70°C (-4 to +158°F)

Dimensions / Weight: 76x53x28 mm / 100g

IP65

App: Android, iOS, Windows, Linux, etc.

Configuration interface

Web-based interface for configuration and monitoring.

Differences between Ares 12 vs. Ares 10


1-Wire 485 sensors	Ares 12	Ares 10
External Relay Output compatible	✓	X
Battery	✓	X

Versions and related products

- Ares 12 plain
- Ares 12 set
- Ares 10
- Converter 2-wire/485
- Back-up UPS

Front page

double sided



Ares 12

Industrial measuring and monitoring for 14 sensors, communication over GSM and back-up power

- Battery
- 3-Wire sensors
- Digital inputs
- SMS notifications
- E-mail notifications
- Data logging
- USB data port
- SensDesk portal

Typical application examples

- GPS monitoring of machines and their environment
- ATMs - environment monitoring without tampering with the connection
- Art exhibits and diagnostics
- Storage of food or materials
- Cooling systems and coolers

Key features

- Using regular GSM networks - 3-Wire & 4-Wire bus
- RS485 (2-Wire Bus)
- Up to 14 sensors
- Sensor distance: up to 500m

Typical inputs

Power: 5 V DC

Type: Digital Input (Supports NO/NC Dry contact)

Capacity: 1-1000 mA (High up to the internal block can be converted to 12V GND)

Max. distance: No restriction

Power input

Power: 0-120V AC

Type: Main device power input (Supports 220VAC)

Capacity: 2-wire (Power, 2-wire bus, 2-wire)

Physical parameters

Temperature range: Operating: 5 to +50°C (41 to +122°F)
Storage: -20 to +70°C (-4 to +158°F)

Dimensions / Weight: 76x53x28 mm / 100g

IP65

App: Android, iOS, Windows, Linux, etc.

Configuration interface

Web-based interface for configuration and monitoring.

Differences between Ares 12 vs. Ares 10

1-Wire 485 sensors	Ares 12	Ares 10
External Relay Output compatible	✓	X
Battery	✓	X

Versions and related products

- Ares 12 plain
- Ares 12 set
- Ares 10
- Converter 2-wire/485
- Back-up UPS

Back page

Flyer A4 (210×297 mm)

SensDesk

SensDesk
IoT portal by HW group

SensDesk
Monitoring and control portal for IoT projects with HW group devices

Online sensor status and measurement overview
Alert services
Remote process control and switching
Configurable user interface/dashboard
Quick setup and configuration

SensDesk.com portal is a web-based service, providing online remote monitoring and control capabilities for HW group sensors and devices without need of user IT system configuration or a control application. All monitoring and control functions are available via web browser and mobile app.
SensDesk can be used for quick and easy set-up of condition monitoring IoT projects based on HW group monitoring devices, using various networks (Ethernet, WiFi, GPRS, LTE...).

Technical experts can monitor and control the system from anywhere.

APPLICATIONS AND USAGE

- IT: Monitoring of operating conditions
- Food industry: Monitoring of storage conditions (temperature, humidity, etc.) within a certification system (HACCP)
- Pharmaceutical industry: Monitoring of medical material storage
- Temperature monitoring in 19" racks and server rooms
- Monitoring of UPS status, humidity, power, access to the room

SUPPORTED DEVICES

The SensDesk portal allows to connect all HW group devices that support the MQTT Push protocol:

- ✓ **Poseidon2**
4002, 3408, 3268, 3466
- ✓ **Damocles2**
2402, 2108, MINI
- ✓ **HWg-Ares**
12, 10
- ✓ **STEz**
- ✓ **STE plus**
- ✓ **HWg-PWR 3/12/25**

Front page

double sided

Alert services

For all sensors serviced by the SensDesk portal, an operating range of values can be set. If this range is exceeded, the system shows an alert for the affected sensor. Alerts can be conditionally forwarded to e-mail or SMS.
All alerts, such as temporary device or sensor inaccessibility or measured values exceeding the specified limits, are recorded in the event log for easy system diagnostics.

Remote process control and switching

SensDesk can monitor and control virtual strips of connected devices. User can switch any relay normally or in addition, SensDesk provides several simple algorithms for switching the outputs automatically according to sensor states.

Configurable user interface/dashboard

SensDesk provides tools for customizing the user interface. Users can define names of their sensors, devices and locations, and group related monitoring and control units together. SensDesk provides a number of elements for displaying the most frequently used quantities, such as temperature, pressure, humidity, real-time electrical power, current, voltage, as well as percentages of output relay states.
An additional dashboard presents device and sensor states for system diagnostics.
All data can be presented as timeline or charts, with visible operating/safe range limits. Recorded data can be downloaded from the portal for use in any spreadsheet or diagnostic 3rd party software.

Quick setup and configuration

All HW group devices have a built-in auto-detection for the SensDesk portal. Connection of a new device to SensDesk takes less than 60 seconds.
All sensors and devices can have custom names and assigned into groups and locations to provide a clear overview according to user preferences.

SensDesk is powered by HW group

SensDesk portal is a web-based service, providing online remote monitoring and control capabilities for HW group sensors and devices without need of user IT system configuration or a control application. The SensDesk Mobile application is available for Android and iOS devices.
Users can use unlimited number of sensors, connected up to 10 at HW group devices. To monitor and control more devices, please ask for our consultant system (extended availability x12 slots) that includes SensDesk portal functions.

HW group
The SensDesk portal is provided as software (SaaS) mode by HW group. Connection of 3rd party devices not supported.
HW group s.r.o. | Formanek 2/8 | Prague, 14301 | Czech Republic | Phone: +420 224 614 948 | www.hw-group.com

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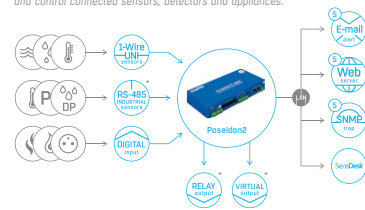
Poster A1 (594×841 mm)

Poseidon2



Poseidon2

The Poseidon2 devices connect mainly sensors and a small number of I/O (Inputs / Outputs) to the Ethernet so the user can monitor and control connected sensors, detectors and appliances.



www.hw-group.com

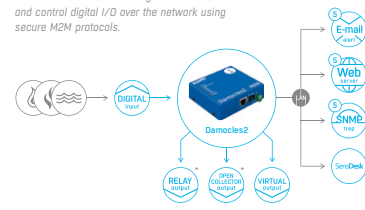
* Depending on the purchase model of the Poseidon2 series.

Damocles2



Damocles2

Damocles2 devices are designed to monitor and control digital I/O over the network using secure M2M protocols.



www.hw-group.com

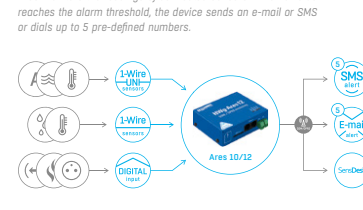
* Depending on the purchase model of the Damocles2 series.

HWg-Ares 10/12



Ares 10/12

Ares monitors the readings of connected sensors. When a value reaches the alarm threshold, the device sends an e-mail or SMS or dials up to 5 pre-defined numbers.



www.hw-group.com

HW group IoT platform



HW group IoT platform

Sensors, applications and cloud solutions for environment and industrial system condition monitoring

Sensors for IoT portal SensDesk

Voltage, Current, Gas, Temperature, Switch, Humidity, Water Leak, Door Contact, Power Supply

Wire & Wireless public and private networks

Nb-IoT (available in 2016), WiFi, Ethernet, GPRS/LTE

Web User Interface **Cloud Solution**

SensDesk Kross

Standard 6 Secure IT protocols

XML, PUSH, IPv6, HTTPS, SSL, MQTT, SNMP, Modbus, CAN, RS485, CANopen, CANAL, CANAL-IP

PIRG, PDMS, SensDesk & SensDesk Mobile, Nagios

www.hw-group.com

Roll-up (850×2000 mm)

Poseidon2

Poseidon2

The Poseidon2 devices connect many servers and a small number of IoT devices (PoE) to the Ethernet or the user can monitor and control connected sensors, detectors and appliances.

HW group s.r.l. is a Greek technological company focused on development, production and distribution of solutions for remote monitoring, alerting and control via LAN, Wi-Fi and 4G/LTE, which covers the latest advances of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.

Poseidon2 200	Poseidon2 200S	Poseidon2 100	IP100
IP100	IP100S	IP100S	IP100S

www.hw-group.com

Damocles2

Damocles2

Damocles2 devices are designed to monitor and control digital I/O over the network using secure MQTT protocols.

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Damocles2 200	Damocles2 200S	Damocles2 100	Damocles2 100S
IP100	IP100S	IP100S	IP100S

www.hw-group.com

HWg-Ares10/12

Ares 10/12

Ares monitors the readings of connected sensors. When a value reaches the alarm threshold, the device sends an e-mail or SMS or calls up to 8 pre-defined numbers.

HW group s.r.l. is a Greek technological company focused on development, production and distribution of solutions for remote monitoring, alerting and control via LAN, Wi-Fi and 4G/LTE, which covers the latest advances of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.

Ares 10	Ares 10S	Ares 12	Ares 12S
Damocles2 200	Damocles2 200S	Damocles2 100	Damocles2 100S

www.hw-group.com

IoT – made easy

IoT - Internet of Things made easy

HW group is an IoT manufacturer since 2003. Products are designed for monitoring and control of digital inputs / outputs and sensors.

HW group s.r.l. is a Greek technological company focused on development, production and distribution of solutions for remote monitoring, alerting and control via LAN, Wi-Fi and 4G/LTE, which covers the latest advances of industrial use. The company is active since 2003 and supplies its products to more than 40 countries worldwide.

Ares 10	Ares 10S	Ares 12	Ares 12S
Damocles2 200	Damocles2 200S	Damocles2 100	Damocles2 100S

www.hw-group.com

IoT platform

HW group IoT platform

Sensors, applications and cloud solutions for environment and industrial system condition monitoring

Sensors for IoT portal Sensodesk

- Voltage
- Current
- Temperature
- Humidity
- Pressure
- Flow
- Level
- Speed

Wireless public and private networks

- 4G/LTE
- WiFi
- Ethernet
- RF/RS485/RS422

Web User Interface **Cloud Solution**

Standard & Secure IT protocols

- MQTT
- REST
- JSON
- SSL/TLS
- SSH
- VPN
- VPN
- VPN
- VPN

www.hw-group.com

**Thank you for
your attention.**



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