



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

Damocles2 MINI provides 4 digital dry contact inputs. All digital inputs feature 30 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 SensDesk portal or the SensDesk 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 M2M protocols (HTTPs, 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

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, 30 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, Bluemix
Internet of Things and
other cloud services

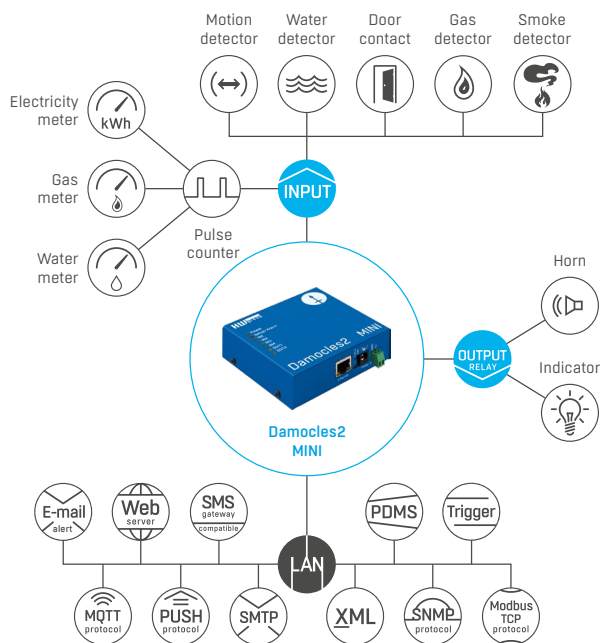
To send an alarm SMS
whenever a DI state
changes, use the
HWg-Trigger software,
or a HWg-SMS-GW
gateway in the
same LAN

Examples for program-
mers on using the
product 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
(relays) of other
Damocles2 units on the
network

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



Main changes in the 2nd generation

	1 st generation Damocles	Damocles2 MINI
Extended IP Filter	✗	✓
SNMPv3	✗	✓
HWg-PUSH (SensDesk portal)	✗	✓
NetGSM (HWg-SMS-GW3)	✗	✓
Virtual Output (XML)	✗	✓
Pulse counter (SD pulse)	✗	✓
HTTPS	✗	✓
IPv6	✗	✓
MQTT (IoT portals)	✗	✓
Group Alarm	✓	✗

Ethernet	
Interface	RJ45 (100BASE-Tx) – 10/100 Mbps
Supported protocols	Modbus/TCP, HTTP, NTP, SMTP, netGSM, HWg-PUSH, SNMP, XML
SNMP compatibility	ver. 1, partial ver. 2, ver. 3

Digital Inputs (DI)	
Port	I1, I2, I3, I4
Type	4× digital input (supports NO/NC Dry contact)
Pulse counter	4× 32-bit

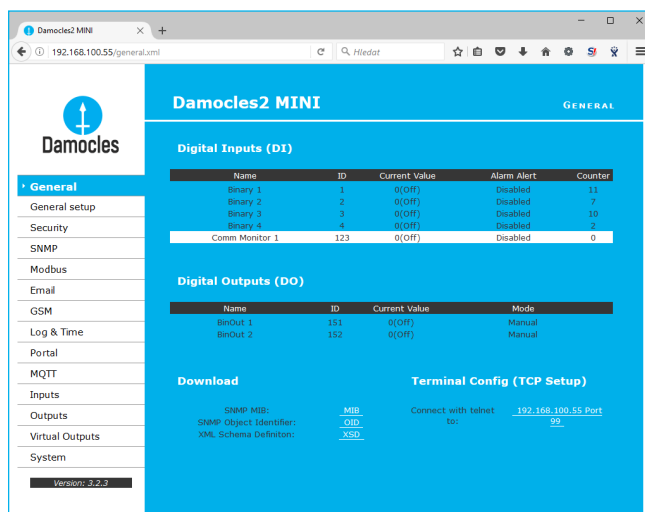
Digital Outputs (DO)	
Type	OUT1, OUT2 / relay contacts (NC-COM-NO)
Max. load	Max. 2 A / 24 V (2 A / 12 V or 0.5 A / 48 V)

Logger	
Internal memory	250,000 records
Recorded values	DI, DO
Power	9–30 VDC

Supported software	
HWg-Trigger	Alert redirection to SMS, pop-up messages, PC shutdown
HWg-PDMS	Logging of values, graphs, export to MS Excel
More software	Third-party software, HWg-SDK

Dimensions / mass	
Dimensions	106×31×94 mm
Mass	300 g

Configuration interface



Versions and related products

 Damocles2 MINI 4× DI, 2× DO DO relay, stand-alone device	 Damocles2 MINI set 4× DI, 2× DO DO relay, includes a power adapter	 Damocles2 1208 set 12× DI, 8× DO OC, includes a power adapter	 Damocles2 2404 set 24× DI, 4× DO DO relay, includes a power adapter	 HWg-SMS-GW3 GSM gateway for ring and SMS notification	 Back-Up UPS Lite Backup power supply. 12 V, 1,3 Ah
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