Damocles2
1208

Industrial I/O with enhanced IP security and OC outputs

- 12 DIGITAL input — Digital inputs
- 8 OPEN COLLECTOR output — Open collector outputs
- Pulse counter
- Web server — Web server
- 5 E-mail alert — E-mail notifications
- SNMP protocol — SNMP protocol
- MQTT protocol — MQTT protocol
- Modbus TCP protocol — Modbus TCP protocol

*Damocles2 1208 provides **12 digital dry contact inputs** (DI). All digital inputs feature **S0 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 SensDesk portal or the SensDesk Mobile app. Damocles2 1208 is an Ethernet I/O device with **enhanced IP security** and an **excellent cost per I/O pin ratio**.*

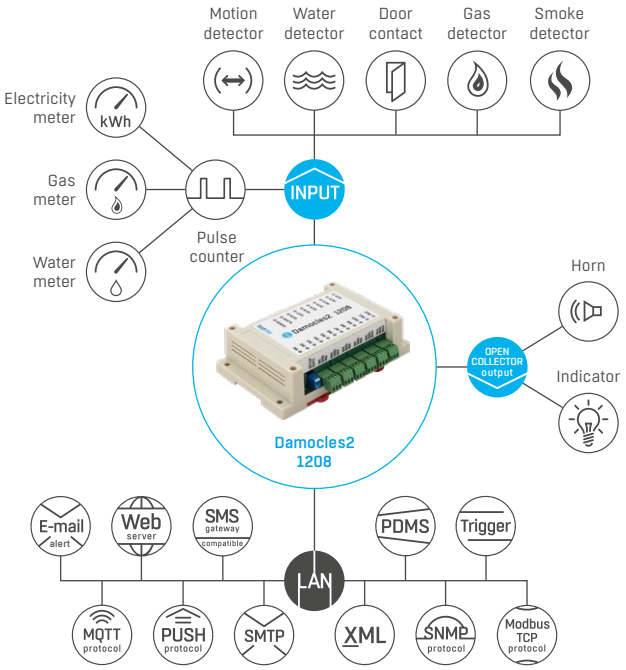
*Damocles2 devices are designed to monitor and control digital I/O over the network using **secure M2M protocols (HTTPs, IPv6, SNMPv3)**. With support for **over 50 SNMP and SCADA applications**, Damocles2 devices can be integrated in a wide range of monitoring and control systems. MQTT protocol enables integration in IoT solutions.*

Basic features of Damocles2 devices:

- Web-based configuration
- When a DI state changes, the device sends an e-mail, SMS, SNMP Trap, or activates a remote relay at another Damocles2 unit
- 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
- All inputs feature 32-bit pulse counters that retain their value even if the power fails
- With the HWg-PDMS software, S0 pulses can be converted to cost per time period and exported to MS Excel
- Examples for programmers on using the product are available in the HWg-SDK (Borland C++, MS Visual, VB, C#, PHP, JAVA and more)
- Supports "SMS + Ring" function
- MQTT compatibility allows connecting to IoT Hub, MS Azure, AWS IoT, Bluemix Internet of Things and other cloud services
- 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

	1st generation Damocles	Damocles2 1208
Extended IP Filter	✗	✓
SNMPv3	✗	✓
HWg-PUSH (SensDesk portal)	✗	✓
NetGSM (HWg-SMS-GW3)	✗	✓
Virtual Output (XML)	✗	✓
Pulse counter (S0 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 – I12
Type	12× digital input (supports NO/NC Dry contact)
Pulse counter	12× 32-bit

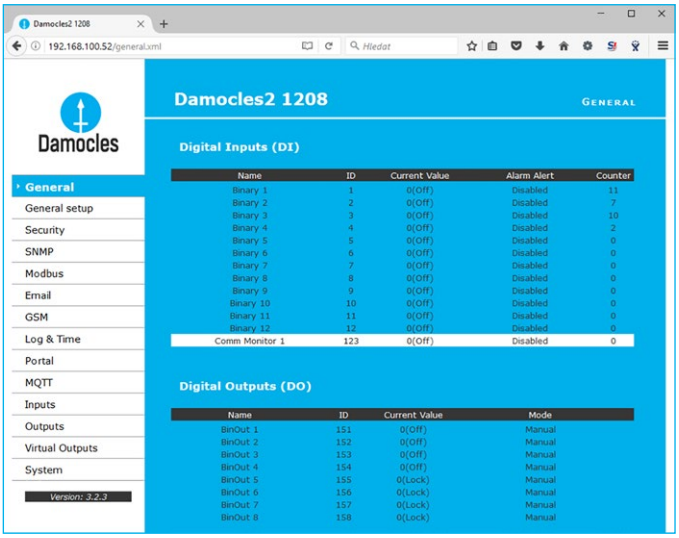
Digital Outputs (DO)	
Type	4× open collector
Max. load	50 V, max. 500 mA / output, max. 1,500 mA all 8 outputs

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

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	145×40×90 mm
Mass	222 g

Configuration interface



Versions and related products

Damocles2 1208
12× DI, 8× DO OC,
stand-alone device

Damocles2 1208 set
12× DI, 8× DO OC,
includes a power adapter

Damocles2 2404 set
24× DI, 4× DO relay,
includes a power adapter

Damocles2 MINI set
4× DI, 2× 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