



# Damocles2

Industrial I/O with enhanced IP security and OC outputs





Digital inputs



Open collector outputs



Pulse counter



Web server



E-mail notifications



SNMP protocol



MQTT 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, SO 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)

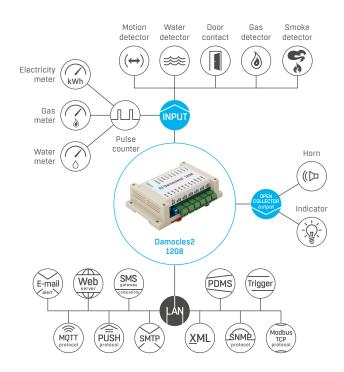
Supports "SMS + Ring" function

MQTT compatibility allows connecting to loT 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 2<sup>nd</sup> generation

	1 <sup>st</sup> generation Damocles	Damocles2 1208
Extended IP Filter	×	~
SNMPv3	×	<b>~</b>
HWg-PUSH (SensDesk portal)	×	<b>~</b>
NetGSM (HWg-SMS-GW3)	×	<b>~</b>
Virtual Output (XML)	×	<b>~</b>
Pulse counter (SO pulse)	×	<b>~</b>
HTTPS	×	<b>~</b>
IPv6	×	<b>~</b>
MQTT (IoT portals)	×	<b>~</b>
Group Alarm	<b>~</b>	×

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)	Digital Inputs (DI)	
Port	11 - 112	
Туре	12× digital input (supports NO/NC Dry contact)	
Pulse counter	12× 32-bit	

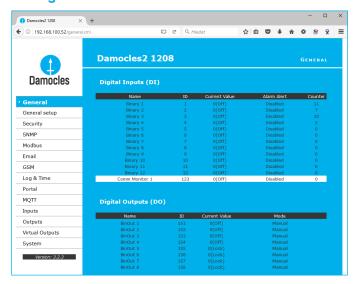
Digital Outputs (DO)	Digital Outputs (DO)	
Туре	4× open collector	
Max. load	50 V, max. 500 mA / output, max. 1,500 mA all 8 outputs	

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

Supported software	oported 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

