

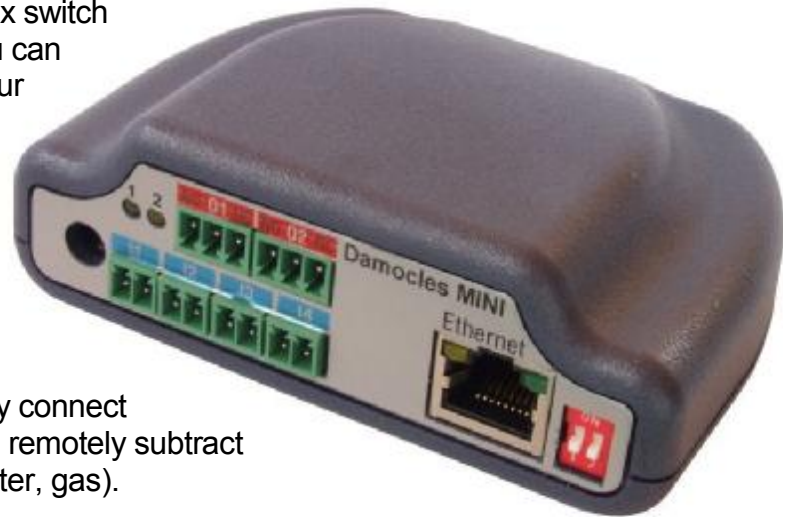
# Damocles model MINI

*Control 2 relays and supervise 4 digital inputs over Ethernet*

Damocles model MINI contains 2 relays outputs (2x switch contacts) and 4 inputs for connect the contact. You can monitor the values and control the outputs over your web browser or standard protocols using software.

In case of defined change on the inputs, Damocles MINI will send an email or SNMP Trap. Over supplied SW, you can log the messages or redirect it like SMS in GSM network.

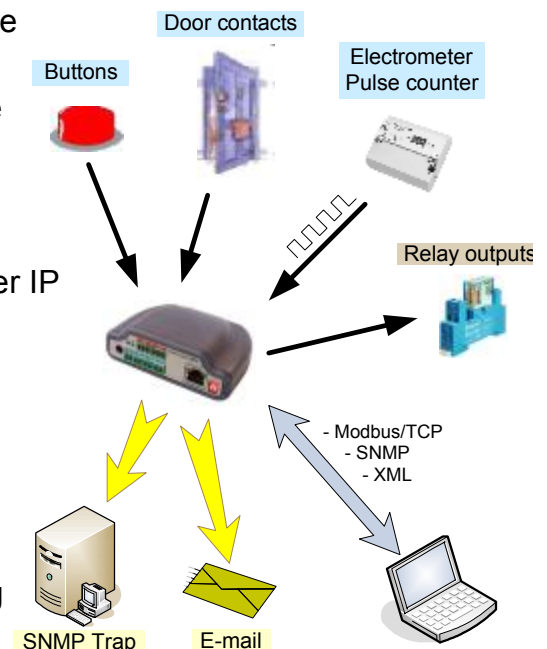
All inputs have the pulse counters. You can directly connect impulse output from electrometer (for counter) and remotely subtract the data about energy consumption (electricity, water, gas).



- **4 inputs** for connect the contacts – counter including
- **2 relay outputs** controlled over network
- Contact switching will send an email or SNMP Trap to **several recipients** (up to 4 recipients)
- **The conditions for Alarm alert** enable transmit the intelligence into the device (for example, Alarm of door contact will alert only if the security system is activated).

## Application examples

- **Relay control over network:** switch relay by three clicks on the mouse
- **Measurement of energy consumption over IP:** Real-time consumption measurement of electricity, gas, water ...
- **SCADA systems:** connecting of inputs and external value counters, outputs for signalization
- **Monitoring of back-up power supply:** UPS a Diesel-engines
- **Security:** monitoring of security elements and sensors over IP
- **Connecting of systems:** Fire systems, security systems, entry systems, states of elevators ...
- **Camera systems:** connecting of external sensors (door contacts, PIR).
- **Remote control over IP:** Opening of entry points - doors, gates, pikes and connecting of passage sensors..
- **Measurement of number of persons/vehicles:** Counting number of passing persons/vehicles



## Basic features

- **4 digital inputs** – for connect the contacts
- **2 digital outputs** – NO, NC relay contacts
- **Pulse counter** for each input (32 bits)
- Ethernet 10 MBit, contains WEB server
- **No specialized SW necessary**
- **Graphic WWW interface** for easy configuration
- Configuration of input values and checking of **current input state**.
- You can name **each input** and define the names of his states On / Off (for example, „Tank2“ and „Full“/“Empty“)
- Each input can provoke alarm (single Alarm) by configured value (On / Off).
- Supports 2 group Alarms (Group Alarm), which support static conditions on inputs and could control the outputs.
- Warning of Alarm by **SNMP Trap** or **E-mail**.
- You can define where each Alarm has to be sent, you can use up to **four IP addresses** for send **SNMP Traps** and **two email addresses** for send the E-mail.
- Damocles uses open communication protocols (**SNMP, XML, Modbus/TCP**)
- Damocles keeps **current time** (automatic synchronization using NTP)
- **Security** ensured by password, IP address range, HW protection of configuration changes.
- Package of supporting programs and utilities (even for Linux).
- Support of majority of **SCADA/HMI** systems (**OPC server** and I/O server over Modbus/TCP) for example, InTouch made by Wonderware
- **SDK** (Software Development Kit) with examples (VB, C, C#, ..)



WWW interface screen – FLASH Setup

## Alarm conditions (Group Alarm)

Damocles MINI supports 2 conditions of inputs states. If the condition is established, the group alarm is alerted. The condition is defined by AND group and OR group, to which particular inputs can be assigned. Group Alarm sends SNMP Trap and Email to defined recipients, furthermore during this operation it can control one of the outputs.

- Simple **temperature regulator**, independent on network connection. Switching temperature sensor connected on the input.
- **Alarm detection** in the case of opened window or persons motion. The alarm is activated only when the office is locked or security system is switched on.

## Order number

<a href="#">600 250</a>	<b>Damocles MINI</b>	Damocles model MINI basic unit (4 inputs, 2 outputs)
<a href="#">600 231</a>	<b>Damocles 2404</b>	Damocles model 2404 (24 inputs, 4 outputs, 1 temperature sensor)
<a href="#">600 120</a>	<b>3x Door contacts</b>	3x sensors for opened door detection
<a href="#">600 237</a>	<b>PowerEgg</b>	Detection of external AC voltage, controllable AC output