

HUgroup

Damocles 2404i

24 dry contact inputs and 4 relays controlled over an IP network (Ethernet). Built-in web server, Box-2-Box mode, alarm alerts (e-mail and SNMP trap).

Damocles 2404i provides access to 24 binary inputs (for contacts) and 4 relay outputs over an IP network. The 2404i model supports one temperature sensor connected to the RS-232 interface.

Upon closing the selected inputs or their combination, Damocles sends an e-mail (2 recipients) or a SNMP trap (up to 4 recipients).

Box-2-Box mode

A relay can be controlled by SNMP traps sent from another Damocles or Poseidon unit.

For instance, UPS state (contact closing) can be signaled over an IP network in a monitoring centre in another building, without any SW.

Contact closed / opened

Temperature too high

Input combination appears

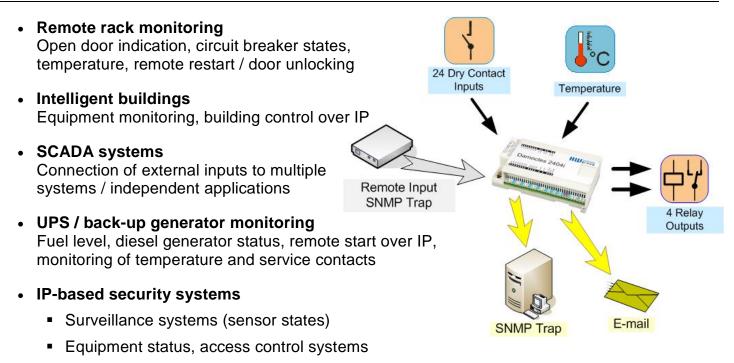
Input state change on device 1

SNMP trap and E-mail is sent

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- >> Specified <u>relay</u> is activated
 - SNMP trap and E-mail is sent
 - Switch outputs on device 2 over IP

Application examples



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Basic features

- Installation in 10 minutes, no software is necessary
- Embedded WEB server / graphical UI
- Control of outputs:
 - WEB interface
 - Local condition (thermometer / other input)
 - Remote networked output (Box-2-Box mode)
- Alarm alerts
 - E-mail
 - SNMP trap
 - Activation of a remote output
 - PD Trigger application: SMS / Pop-Up window / Shutdown Windows / start an application
- Inputs and their states can be named (e.g. I4 "Tank 7" 1 = "full", 0 = "empty")
- Group alarms e.g. "Warning overheating" alarm is raised when Door = Closed, Temperature exceeds 40 °C for at least 5 minutes, AirConditioning = Off
- Different alarm alert recipients can be specified for individual inputs (4 SNMP trap destinations, 2 e-mail destinations)

Applications in IT:

- Damocles works with more than 60 NMS systems (LoriotPro, Nagios, SNMPc, HP OpenView, IBM Tivoli, MRTG, Intellipool, ...)
- **HWg SDK** (Software Development Kit): Libraries and examples (VB, C#, .NET, Borland / Microsoft C++, Borland Delphi, JAVA, PHP)

Industrial applications:

- Works with most SCADA systems (OPC server and I/O server over Modbus/TCP)
- "Soft-PLC" Windows application for remote access to the units, measuring and control

Accessories

PowerEgg

Damocles 2404i SET	Damocles 2404i quick start set (includes AC adapter, CD, etc.)
Damocles 2404i	Damocles 2404i unit only, no accessories
PowerEgg	110/230V mains voltage sensing and control
Damocles 1208	Damocles 1208 unit only, no accessories (12DI, 8 DO – open collectors)



Damocles 2404i 24 • **Inputs** (relay contacts): Pulse counter Yes 4 • Outputs (relay contacts): Box-2-Box mode Yes Temperature sensors 1 SNMP: Yes Modbus/TCP Yes E-mail alerts: Yes



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SNMP

Protocols:

- Modbus/TCP
- **XML** (over HTTP)
- E-mail
- SNMP trap
- NTP •







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