

# I/O Controller 2

Full serial port RS-232/485, 8 dry contact inputs and 8 outputs to Ethernet

I/O Controller version 2 connects digital inputs/outputs and RS-232 full serial port (9 pins) and to the Ethernet. The serial port can be used as a terminal server (virtual serial port). Inputs and outputs can be controlled over the Web or through Modbus/TCP.

Version 2 is 100% compatible with the previous version. Serial port and I/O can be controlled with a TELNET-like (RFC2217) M2M protocol. For testing, use the Hercules SW terminal.



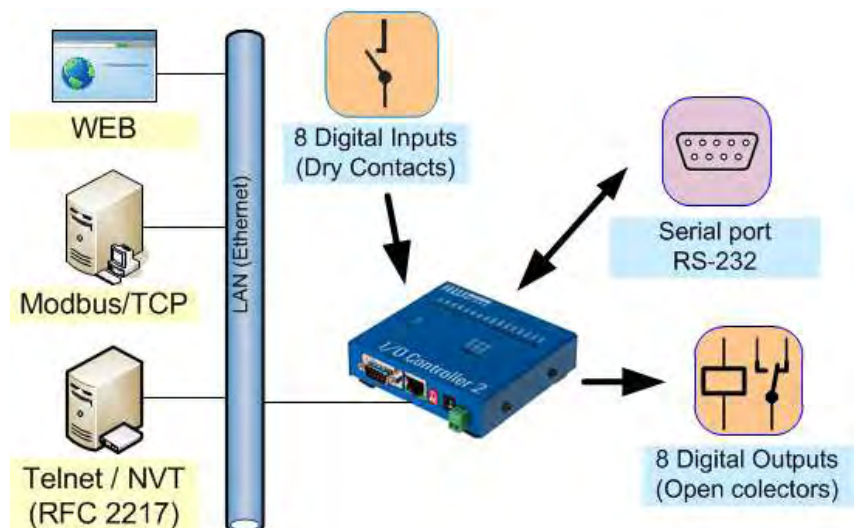
- ✓ Web-based configuration
- ✓ Full serial port RS-232 (9 pins)
- ✓ I/O can be controlled over **Modbus/TCP**
- ✓ Usage examples in various programming languages (**HWg-SDK**: Borland C++ Builder, MS Visual C, VB, Delphi, C#, PHP, JAVA)
- ✓ **Box-2-Box mode**: Two units can be connected against each other in order to interconnect all their inputs and outputs over the LAN, including the serial line.
- ✓ **Virtual serial port for free** - e.g. COM27 is redirected from the PC over the LAN to device. The **HW VSP** app for Windows is free (for up to 100 serial ports), supports Windows 7.

## Applications

- Easily connect a barcode reader or a serial printer over an IP network (LAN / WAN).
- Link up to eight buttons with a SW application.
- Control a gate, a horn, or an alarm signal using the outputs that can be boosted with external relays.

## Main features

- WEB interface
- Serial RS-232/RS-485 port
- 8 outputs (open collector)
- 8 inputs for dry contacts, pushbuttons or external voltage



## SW applications

- **Virtual Serial Port**

HW VSP (Virtual Serial Port) creates a virtual COM port (e.g. COM27) on the PC and ties it with the serial port on the unit.

Runs as a NT service (can be used on Windows servers, x64 included).

- **HW VSP Single licence** (Win 2000 to Windows 7) is free of charge.
- **HW VSP Multi licence** creates up to 100 virtual ports on a single PC and ties them with up to 100 IP Relay, PortBox and I/O Controller units.



- **Hercules** – Handy debugging and testing utility, I/O support

- **HWg IPRC cmd** – Command-line control of outputs

- **HWg SDK examples**

Software Development Kit is available for download free of charge.

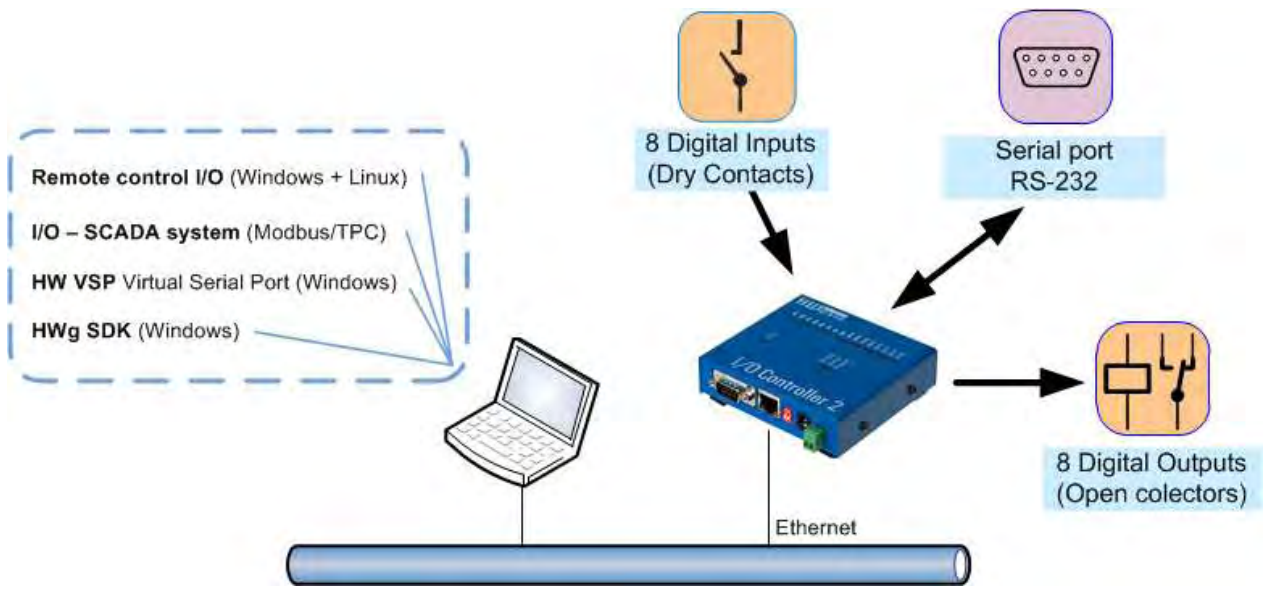
- EX01: UDP Setup (Borland C++ Builder, MS Visual C, VB, Delphi, C#)
- EX02: I/O Controller (Borland C++ Builder, MS Visual C, VB, Delphi, C#)
- EX03: Control Remote Serial Port (Borland C++ Builder, MS Visual C, VB, Delphi, C#)
- EX13: TCP Setup (Borland C++ Builder, MS Visual C, VB, Delphi, C#)



Technical specifications	
<b>Ethernet</b>	RJ 45 – 100BASE-T / 100 Mbps
+ Protocols	TCP/IP, UDP/IP, Telnet+RFC2217, http, Modbus/TCP
+ Modes	TCP Server, TCP Client/Server, UDP (serial port only)
+ Security	Allowed IP address range / TEA authentication (128 B)
+ Configuration	UDP Config utility + WEB interface RS-232 Setup Telnet Setup
<b>Serial port</b>	Full RS-232 (Cannon DB9M - Rx/D, Tx/D, CTS, RTS, DSR, DTR, RI, CD, GND) RS-485 (Ø3mm terminals)
<b>Inputs</b>	8 contacts (external voltage 0 / 3..12 V)
<b>Outputs</b>	8 outputs (Darlington transistors) common ground, max. 50VDC / 0.5A / 2W for all 8 outputs
<b>Power</b>	8..30VDC / 0.25A (barrel connector)
Dimensions / mount	105 x 105 x 25 [mm] / fits on a DIN rail, wall mountable
Environment	Operating conditions: -10 to +75°C (+14 to +167°F) / 10% to 80% RH

Product ordering numbers	
<b>I/O controller 2</b>	Unit only, no power adapter or cables.
<b>I/O controller 2 SET</b>	Quick start set. Includes a power adapter, cables, CD, etc.

### M2M mode



### Box-2-Box mode

