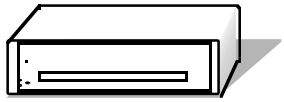
meet C.I.D.

DIGIO-01

DIGITAL INPUT/OUTPUT MODULE

Product Datasheet



Digital Input and Output Module

The DIGIO-01 is an universal peripheral that adds digital input and high power output capabilities to a personal computer or other data terminals (DTE).
powerful microprocessor. Its low cost, rugged construction and flexibility make it ideal for a variety of applications in industry, education and home.
Built-in networking capabilities allow to connect a chain of up to 15 DIGIO-01's
types (e.g. ADIO-01) is guaranteed.

Product highlights:

- interfaces to a PC or Macintosh computer via standard serial port (no additional harware has to be installed into the computer)
- 16 galvanically isolated logic inputs
- large input signal range: 4.5V to 35V
- inputs are protected against overvoltages
- 16 fully isolated relay outputs (250V / 8 Amps)
- confortable 2-component connectors on all inputs and outputs
- power supply range: 11..28Volts DC (unregulated)
- large number of optional accessories are available
- software operating programs for Windows95/98 and Macintosh are available, as well as drivers for LabView™ (and other "scada" programs on request)
- alternatively, it is possible to control the instrument by means of a standard terminal emulation program (such as HyperTerminal or others)

Ordering information:

Item	Ordering Code
DIGIO-01 Module	DIGIO-01C
External power supply (fits 1 or more DIGIO's)	DIGIO-PS
User program for Macintosh/Power Macintosh	GU-SWMAC
User program for PC (Windows95/98)	GU-SWWIN
Serial cable Macintosh - DIGIO-01	C01-MAC
Serial cable PC - DIGIO-01	C01-PC
Inter-module daisy-chain cable	C02-NET
LabView™ driver for Macintosh/Power Macintosh	LV-SWMAC
LabView™ driver for Windows95/98	LV-SWWIN
C++ source libraries (PC and Mac)	CPP-SW

For your orders please contact:

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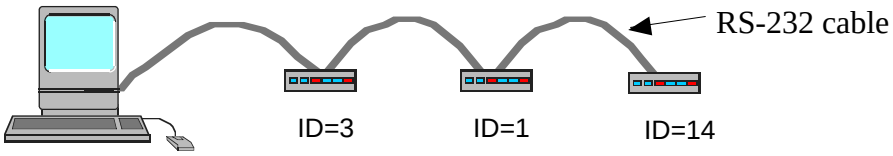
Electrical characteristics:

Characteristic	Symbol	
Supply:		
Power supply range	Vcc	11 to 28 VDC
supply current when all outputs are off	Icc (Vcc=24V)	25 mA typ
supply current when all outputs are on	Icc (Vcc=24V)	300 mA max
Logic inputs		
Active input voltage range	Vin	4.5 to 35 V *)
Input current (Vin = 5 Volt)	Iin	
Unipolar inputs (positive)		yes
Bipolar inputs (positive and negative)		optional **)
Input protection circuits		yes
Max input sampling frequency †)	Fsample	
Relay outputs		
power rating for each channel		250VAC, 8A
function (each)		SPST
Serial communication		
RS 232 protocol parameters		9600,n,8,1
Other protocols		contact factory
Dimensions		
w x d x h		235x165x60 mm

*) Inputs are protected against temporary overvoltages (above 35 Volt)
**) Contact factory
†) With all inputs being used

Networking capabilities

The DIGIO-01 has a particular communication protocol over the RS232 link, which enables up to 15 DIGIO-01's
addressable by the personal computer.
Each DIGIO-01 is configured to have a different Address ID, by means of a rotary switch on the back panel.



Each DIGIO-
interference free communication.
In addition, it is possible to mix other of our products into the same chain: for instance, a chain can be composed of 5 ADIO-01 and 8 DIGIO-01 (all are separately addressable by the computer).
Inside the DIGIO-01, a hardware expansion bay can accomodate adapters for other protocols. Actually, we are planning the following interfaces: LON, RS485, USB, CAN (and others on request).

Software Plug-Ins

An internal non-volatile memory of the DIGIO-01 can hold optional or custom software functions. These "plug-ins"
us if you need any special software function.