Proximity Transponders

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Transponders based on module HM4001/2 from EM MICROELECTRONIC - MARIN Switzerland. Available in form:

- 1. ISO Card (standard credit card's dimensions) - white colour
- 2. PVC Card (standard credit card's dimensions) - white colour, 2 mm
- 3. keyholder
- 4. unique disc

UT-2 - Interface RS485/RS232

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UT2 is the RS485/RS232 interface, which enables control of the RACS system communication bus from a PC computer level. The features are as follows:

- transmission of system configuration data from a PC computer to the CPR main control panel and PRxx1 controllers,
- reading of events recorded by the RACS access control system.

Dimensions 99 x 67 x 33 [mm].

Wiegant/Magstripe Conwerter WMC-1

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The WMC-1 converter enables connection of a reader equipped with Wiegand, Magstrip or Clock&Date interface to any PR-series controller. The WMC-1 interface is provided with two input lines to connect a Wiegand/Magstrip reader and two communication lines to connect the converter with a PR-series access controller. WMC-1 is equipped with an identical set of LED indicators as PRT-series access terminals (bi-color ON/OFF, OPEN and SYSTEM LED's) and deliver a 5VDC output, which can be used to supply a reader linked to the converter. Like PRT-series terminals, the converter is capable of defining its ID number and connecting it, together with other RACS-compatible devices, to the Clock and Date lines of PR-series controllers. The converter significantly enhances hardware capabilities of the access control system and enables connection of other manufacturers' equipment to the RACS system. An example is the GP60A long-range proximity reader, which can be applied to control car park gates or Hands Free passages, i.e. where identification is supposed to be made without a necessity to expose an ID card.
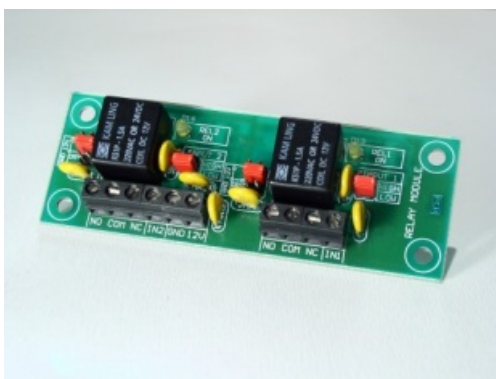
Dimensions 99 x 67 x 33 [mm].

RM-2 - Relay Module

RM-2 - relay module

The module enables higher current-carrying capacity of transistor outputs and is provided with galvanic insulation between the triggering signal and load.

- two NO/NC relay outputs of 6A/28VDC load capacity,
- overvoltage protection of relay contacts,
- a possibility to connect a common COM contact to the positive or negative pole of the module power supply with a programming jumper,
- high/low input voltage triggering levels,
- LED indicator to signalize the status of each relay,
- power supply 10..15VDC,
- dimensions 36x100.

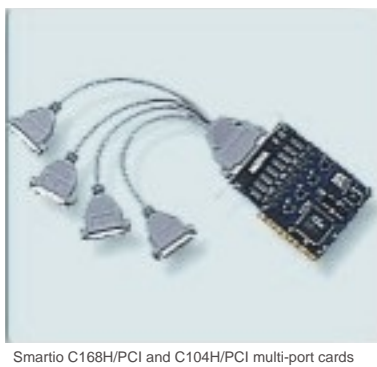## Virtual Serial Port VSP100

VSP100 - virtual serial port

It enables communication with other RS232 devices via a computer network.

In certain situations, equipment communicating with a computer via a serial port must be located in a significant distance from it. In such circumstances, a special-purpose communication interface (e.g. a radio interface) is usually applied, which enables communication between a remote device and a computer. Virtual Serial Port (VSP) is a device, which enables communication with a unit equipped with a serial (COM) port via a computer network (an Intranet or the Internet).

VSP is connected to an existing computer network from one side and to a device equipped with a serial (COM) port from the other side. Virtual Serial Port has a unique identification IP number, which is defined in the set-up process. A computer, which communicates with a remote device via a serial port, processes information being sent to the remote device over one of the available network communication protocols, which is used to send and return the information to/from the remote device. The appropriate software installed in the computer allows its operating system to see a remote serial port as one of its local serial ports. One of the features of the virtual serial port technology is a capability of integrating independent subsystems of an access control system located in distant buildings using an existing local computer network (LAN). VSP may be also linked to a computer via the Internet, but in this case you must check whether the Internet packet transmission delays do not preclude or hinder practical application of this type of connection

To a certain extent, the RACS access control system software enables adaptation of the PR Master program to the existing network delays; in practice, it is assumed that the delays should not exceed 200ms. A practical and simple network delay test method is to send Pings ; nevertheless, the final verification of the connection efficiency should be performed by making functional tests of the system (device) taking into account the specific network conditions.

Technical specification:

- ■ network interface: 10Base Ethernet,
- ■ serial interface: RS232, DB9S, types of signal: RX, TX, RTS, CTS and GND,
- ■ network protocols: UDP, TCP, ICMP (ping), ARP,
- ■ buffering: two independent 256-byte buffers for transmission and reception,
- ■ power supply: DC 12V, 150mA,
- ■ operating temperature: 0~55C,
- ■ range of relative humidity: 10~90%,
- ■ dimensions: 95x57x30[mm],
- ■ weight: 170g.

Smartio C168H/PCI and C104H/PCI multi-port cards

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Smartio C168H/PCI and C104H/PCI cards enable extension of a PC computer equipped with a PCI bus with additional 8 (4) serial RS232 COM ports. RACS 3.x software package enables management of access control systems comprising up to ten independent subsystems and their integration in one database.