

# Remote input/output modules



**PDM**

*Pyro Distributed IO Modules*

Communicating | Adaptable | Economical



Pyro Distributed IO Modules

# Let Pyrocontrole handle your signal!

Economical, adaptable,  
high-performance  
signal converters



Power supply: 19/40 Vdc or 19/28 Vac

Operating temperature: 0 to +55 °C

Storage temperature: 0 to +70 °C

Protection: IP20

Mounting: 35 mm DIN rail

Dimensions: 17.5 x 100 x 112 mm  
(except PDM-Supply : 35 x 100 x 112 mm)

Weight: 140 g (except PDM-Supply: 215 g)

An acknowledged expert in temperature process control, Pyrocontrole has developed an automation offering for industry. This is based on a complete, reliable solution bringing together the PDM I/O Modules and the CPS Touch® new-generation Human-Machine Interface.

- A Complete Range**  
Digital, thermal, analog: the PDM range of I/O modules is designed to meet every type of requirement.
- Simple Configuration**  
Advanced programming of the modules is easy with the PDM Studio programming software. Configurations created in this way can then be saved for archiving or duplication.
- Compatibility**  
Thanks to the Modbus RTU protocol, the PDM modules can be used with any type of instrument: PC, CPS Touch® human-machine interface, PLCs, SCADA system, etc.
- Versatility**  
Remote control, remote surveillance, production control, automation, etc. The PDM range can be used in a wide range of applications.

- Simplified Installation**  
Thanks to Bus support for PDM-DIN modules, a single power and data-bus connection is all that is necessary.
- Adaptable**  
All the connectors are unpluggable for easier installation and maintenance.
- Communication Interfaces**  
To facilitate integration in your system, the PDM range of modules includes wireless transmission modules and Modbus TCP gateways.
- Supervision**  
LEDs for indicating the I/O, communication and power-supply statuses.
- Configuration Input**  
3.5mm stereo jack / RS232 programming input for the analog and temperature modules.



# Communication interfaces

## Radio Module | PDM-LINK

RS485 half-duplex Radio interface module. RF communication system for wireless data transmission:

- interfaces with the PDM-DIN bus system
- replaces a RS485 data bus link.



	PDM-LINK
Frequency	869 MHz
Power	10 mW
Distance	300 m free field
Advanced functions	Configurable as Modbus Master or Slave - The PDM-LINK modules operate in a meshed network, with each transmitter serving as a repeater
Power-supply and bus connections	PDM-DIN BUS system or removable connectors
Insulation	1,500 Vac between power supply and bus
Accessory: external antenna	ANT-EXT-LINK
Accessory: directional antenna	ANT-DIR-LINK

## Ethernet Module | PDM-ETH

Modbus RTU-Modbus TCP interface (up to 8 clients).



	PDM-ETH
RS485	2 ports configurable independently: - 1 port on PDM-DIN Bus system - 1 port on plug-in connector
RJ45	1 RJ45 port, 10/100Mbps Ethernet
USB	1 mini-USB 2.0 type-B port for configuration
Protocols	Modbus RTU Master, Modbus TCP, http
Configurable parameters	IP address, serial transmission speed, Modbus address mapping of the slaves in the buffer
Adjustments	Dip switches, WEB interface, PDM-Studio software

# Accessories

## Bus Support | Série PDM-DIN



- **Adaptable:** connection of 1 to 8 modules
- **Stackable:** up to 32 modules on the same assembly
- **Installation without interrupting the process**

Model	Interface
PDM-DIN-2S	2 modules - 17,5 mm
PDM-DIN-8S	8 modules - 17,5 mm
PDM-DIN-1L	1 module - 35 mm
PDM-DIN-C-2S	2 modules + screw terminals for serial buses and power supply - 17,5 mm
PDM-DIN-C-1L	1 module + screw terminals for serial buses and power supply - 35 mm



## Portable Converter PCM-USB-485

The PCM-USB-485 is a USB-to-RS485 converter.

	PCM-USB-485
Description	Portable USB/RS485 converter
Power supply	Power supply via USB port
Consumption	60 mA
Operating system	Windows 98, 2000, XP, Windows 7; Linux 2.24.0
Compatibility	USB 1.1 and 2.0
Dimensions	40 x 48 x 20 mm

## Connection cables

LRMCABL-000	RS232 programming cable, DB9 to 3.5 mm jack
LRMCABL-001	RS232 programming cable, DB9 to 3.5 mm jack, for PDM-LINK

# Configuration and recording

## Simple configuration of your modules with the PDM Studio software

- configuration of modules online or offline
- online testing
- backup of configurations
- unlimited duplication of the configurations created

The PDM Studio software can be downloaded free of charge from [www.pyro-controle.com](http://www.pyro-controle.com)

## Data acquisition, display and recording: the PyroDAQ solution

- PyroDAQ data acquisition software for Windows is ideal for managing the data from Modbus slaves.
- Several PC / instrument links are possible: RS232/RS485/Modbus serial interface Ethernet and MODBUS TCP connection
- Comprising **Real Time Viewer** and **Historical Viewer**, PyroDAQ records and can process all the data.



### Real Time Viewer

- Recording of up to 2,048 tags
- Up to 200 pages with 24 tags per page
- Display of curves in real time
- Adjustment of amplitude and speed for the curves
- Mathematical channels and virtual simulation channels
- Processing tools: 100 timers, 50 counters, 50 totalizers
- Alarm management, up to 5 alarms per channel
- 2 tasks per alarm: dispatch of email, event recording, etc.

### Historical Viewer

- Data and event histories
- Evaluation of the values on the curves
- Addition of remarks on the curves
- Criteria-based search function
- Printing of curves, lists of events / alarm, reports and tag values
- Export of data and events / alarm as CSV files

A free trial version of PyroDAQ can be downloaded from the [www.pyro-controle.com](http://www.pyro-controle.com) website. A full version delivered with a USB licence key is available for purchase (order code LR00DAQ-000)

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