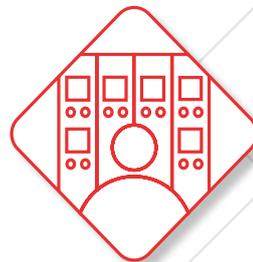


## Digitizer PZ-8I



[www.pizzi-instruments.it](http://www.pizzi-instruments.it)

Instruments and Systems for Geotechnical and Structural

## Digitizer PZ-8I



### Description

Voltage-current / RS485 input module PZ-8I is an input module with ModBUS RTU interface for 8 analog voltage or current signals in the ranges  $\pm 2.5$  Vdc,  $\pm 10$  Vdc and  $\pm 20$  mA with 16 bit resolution. The module's auxiliary power supply can power all 8 current loops simultaneously. The current input with internal shunt can be selected via dip-switch.

The insulation of the inputs with respect to the remaining low voltage circuits is 1,500 Vac.

### Application

PZ-8I digitizer is applied in all situations in which it is necessary to interrogate various analog instruments with 4-20mA output and provide a digital signal at the output. Its characteristics allow it notable applications, both in industrial and in geotechnical and structural fields such as: dams, bridges, tunnels, monuments, buildings for civil homes, buildings of historical interest, flow and weather measuring sensors, etc.

In other words, we can state that the Digitizer is used whenever there are problems, both operational and economic, in providing for the tensioning of the cables (which can also be in a significant number) and in the various intermediate connections. PZ-8I instead allows the connection to be made using a simple serial transmission cable.

### Multiple Digitizer PZ-nI

Digitizer in the multiple composition or for digitizers with 16 or 24 channels, or more, the Digitizer is proposed in a wall panel with "n" modules, terminal blocks and overvoltage protections

## Technical features

### GENERAL DATA

Power supply	10...40 Vdc/19...28Vac/50-60Hz
Power Consumption	0,5W
Isolation	1.500 ac (3 way)
Power Transducer	---
Status Indicators	Power Supply Error data Transmission Data Reception
Protection Degree	IP20

### THERMOMECHANICAL FEATURE

Operating Temperature	-20 ...+65°C
Dimension	17,5x100x112mm
Weight	About 140g
Housing	Nylon 6 with 30% glass-fiber , VO self extinguished class
Connections	Removable terminals blok, plug in connectors, max wire size 2,5mm <sup>2</sup>
Mounting	35mm DIN rail guide 46277

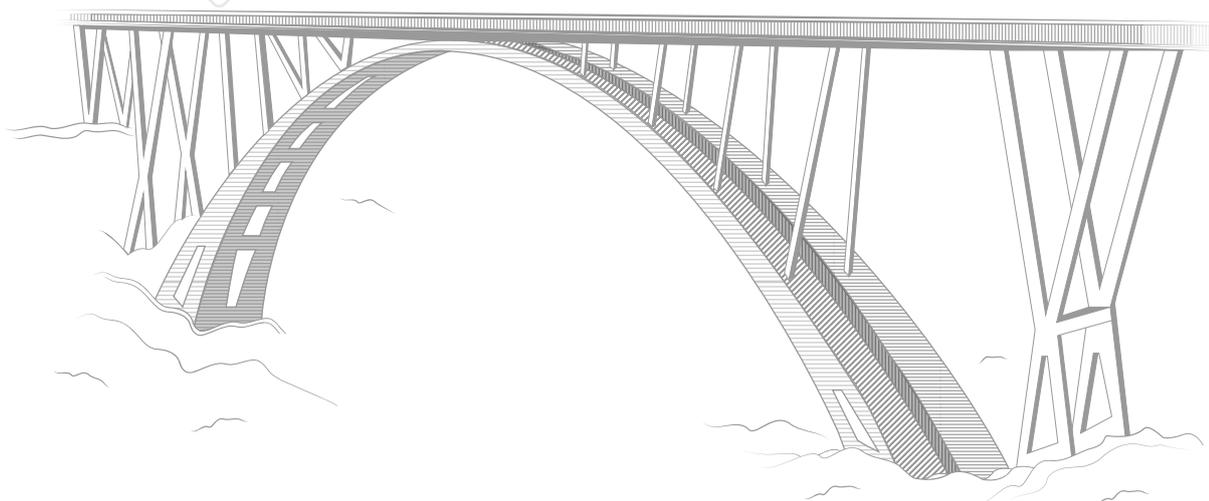
### COMMUNICATION, PROCESSING, MEMORY

Interfaces	2 wires RS485 – RS232 (DB9 jack stereo 3,5mm)
Speed	Up to 115,200 bps
Protocol	ModBUS RTU slave
Communication Time	<10ms (38400 baud)
Distance	Up to 1.200mt
Connectivity	Max 32 nodes
Data Memory	EEPROM for the configuration parameters, retention time 10 years
Channels	8
Type	Programmable bipolar input voltage (+- 2,5Vdc, +-10Vac, impedance>100Kohm) or current (+-20mA)
Resolution	16 bit
Accuracy	0,1%
Thermal Drift	0,01%/°C
Programming	Z-NET4 (IEC 61131 software) EASY SETUP (plug&play software) DIP (switches)
Norms & Approvals	UL-UR,CE,EN50081-2, EN55011,EN50082-2, EN6100-2-2/4). EN50140/141, EN61010-1, EN60742

## The Company

For more than 40 years we have been designing and producing precision instruments for monitoring large structures sold all over the world.

Accuracy in design, efficiency in construction, reliability in management, these are the prerogatives that every big project must have and that structural monitoring systems must guarantee



### Technical assistance

If you have any requests or questions about our instruments or if you have special needs that require different solutions from the standard, please contact us. Our team will provide all the necessary information and will be very happy to work with you to study, develop and customize instruments and solutions suitable for your specific needs.

All data present in the sheets could change without notice.

Please check the release carefully and for more details contact Pizzi Instruments.

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