

Z-PASS1

VPN INDUSTRIAL GATEWAY, SERIAL DEVICE SERVER WITH BUILT-IN I/O

Highlights

- **Industrial Gateway, Serial Device Server, Bridge**
- **Supported protocols: ModBUS TCP server, ModBUS RTU master, ModBUS RTU slave, FTP server, SFTP server, HTTP server, HTTPS server**
- **Nr.2 Fast Ethernet 10/100Tx ports on RJ45 front connector**
- **Nr.1 RS232/RS485 serial port**
- **Nr.2 RS485 ports**
- **Nr.1 USB host port**
- **Security interlock**
- **Nr.4 built-in digital I/O**
- **Remote Assistance (P2P) and Telecontrol (Single LAN) mode with LET'S platform**

100% Made & Designed in Italy

Z-PASS1 is an industrial gateway / serial device server that can handle up to 32 clients. The device has nr.1 digital input for remote connection security interlock, nr.1 digital output for VPN connection online signal. nr.1 digital output for general purpose and nr.1 DI/DO configurable free, Featuring nr.2 Fast Ethernet ports (switch and LAN / WAN mode),nr.1 RS232/RS485 port, nr. 2 RS485 ports and nr. 1 Micro USB host 2.0 port,, Z-PASS1 supports ModBUS TCP server, ModBUS RTU master, ModBUS RTU slave, FTP server, SFTP server, HTTP server, HTTPS server, OpenVPN protocols.
The device is easy-to-learn programming by Web Server.
Integrated into LET'S platform, Z-PASS1 can support Point-to-Point mode for Remote Assistance connection or Single LAN mode for Telecontrol connections.
For more information please visit www.seneca.it/lets.

Built-In I/O

Industry 4.0 ready

LET'S VPN CONNECTIVITY SOLUTIONS

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www.seneca.it

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Z-PASS1



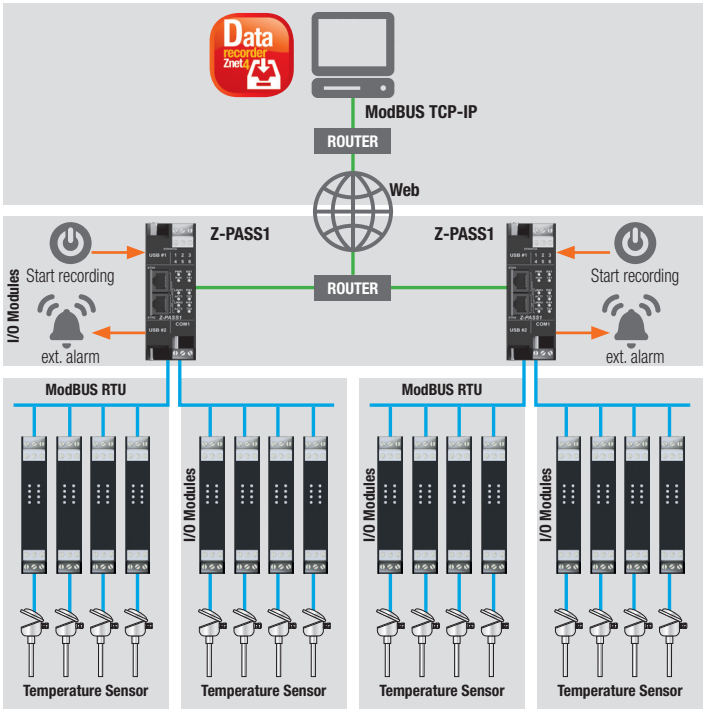
VPN INDUSTRIAL GATEWAY, SERIAL DEVICE SERVER WITH BUILT-IN I/O

TECHNICAL DATA

GENERAL DATA	
Power Supply	11..40 Vdc; 19..28 Vac
Power Consumption	Typical 3 W @ 24Vac, Max 4 W
Isolation	1500 Vac (power supply // other circuits)
LED Status Indicators	Power Supply / Ready to use - Input / Output status Remote Connection (RCD) / VPN Connection (VPN) LAN/WAN (Ethernet mode) / SERV (VPN BOX Service) Rx-Tx serial communication / Ethernet link / activity
Protection Degree	IP20
Operating Tempetature	-20 °C..+65 °C
Dimension (wxhxd)	35 x 100 x 112 mm
Weight	220 g
Case	PA6 glass fiber reinforced , black color
Mounting	35 mm DIN rail IEC EN 60715
COMMUNICATION	
Ethernet Ports (ETH1, ETH2)	Nr.1 Fast Ethernet 10/100Tx ports on RJ45 front connector
Serial Ports (COM1, COM2, COM4)	Nr. RS232 / 485 serial port switchable via software, max baud rate 115 kbps on connector Nr. 1 RS485 port, max baud rate 115kbps on IDC10 connector for bus nad terminal blocks Nr. 1 RS485 port, max baud rate 115kbps on terminal blocks
USB Ports	Nr. 1 USB host port on side connector type A
Industrial Protocols	ModBUS TCP server, ModBUS RTU master, ModBUS RTU slave.
IT Protocols	FTP server, SFTP server, HTTP server, HTTPS server, OpenVPN
Nr. Max client VPN	Point-To-Point: 1; Single LAN: 496
Nr. Max simultaneous TCP client connections	32
Operating Functions	Modbus Gateway / Shared Memory Gateway, Virtual COM, Serial tunnel P2P / P2MP / TCP / UDP, 3G+/Ethernet Router, VPN, Telecontrol single LAN, Remote Assistance Point-To-Point, LAN / WAN Ethernet, Switch Ethernet, Layer 2 - Industrial Ethernet (only with P2P connection)
CPU & MEMORY	
Processor	ARM 32 bit
Flash Memory (data)	1 GB
RAM	64 MB
Slot Micro SD	Yes, Max 32 GB
I/O	
DI - Enabled VPN connection	1
DO - Active VPN connection	1
DO for general purpose	1
DI/DO free settable	1
SECURITY	
Remote Access block	Mechanical, Inteblock digital input for remote connection
Data Encryption	128 bit
Data Authentication	SHA1 160bit
Securty Protocols	OpenVPN, SSL, HTTPS Server
SETTINGS & SOFTWARE	
Web Server	Yes
VPN Box Manager	Yes
VPN Client Communicator	Yes
Seneca Discovery Device	Yes
SESC (Seneca Ethernet to Serial Connection)	Yes
STANDARD	
Apprrovals	CE
Norms	EN61000-6-4, EN 61000-6-2, EN 61010-1

APPLICATION NOTE

ModBUS Gateway – Data Acquisition



ORDER CODES

Code	Description
GATEWAY	
Z-PASS1-IO	VPN Industrial Gateway - Serial Device Server with built-in I/O
VPN SERVER	
VPN BOX	LET'S - VPN Server for Point-to-Point / Single LAN connections
VPN BOX VM	LET'S - VPN Server Virtual Machine for Point-to-Point / Single LAN connections
VPN BOX-D	LET'S - VPN BOX Point-to-Point service, 30 day free trial up to 2 devices
VPN BOX VM-D	LET'S - VPN Server Virtual Machine for Point-to-Point / Single LAN connections up to 2 devices
VPN BOX MANAGER	LET'S - VPN BOX setup software
VPN CC	LET'S - VPN Client Communicator, remote access software
SOFTWARE TOOLS	
SDD	SENECA Discovery Device
SESC	SENECA Ethernet to Serial Connection per Z-KEY, Z-PASS1, Z-PASS2
TEMP-TAG-Z-PASS	Excel template for Z-PASS-1/2/2S tags (gateway mode)
ACCESSORIES	
CS-TIP-MEF-PH	Serial communication cable (tips/4-ways connector)
CS-DB9M-MEF-PH	Serial communication cable (DB9M / MEF 10-12) 3 wires, 1,5 mt
CE-RJ45-RJ45-R	Straight-thru Ethernet cable (RJ45-RJ45)
MSD	Micro SD memory card with adapter
Z-PC-DIN1-35	DIN rail bus system 1 slot 35 mm
Z-PC-DIN4-35	DIN rail bus system 4 slot 35 mm
Z-PC-DINAL1-35	DIN rail bus system head terminal + 1 slot 35 mm

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