

VDSL VPN-Firewallrouter

With the **VDSL VPN firewall router** for DIN rail mounting (Item no. A-FW55), a high-performance router for industrial Ethernet networks is available, enabling secure transmission of sensitive data over data networks. The router supports all common VDSL and ADSL standards. The integrated firewall and VPN support protect your application from unauthorized access.

Remote locations can be integrated into a VPN network easily, securely, and reliably via DSL internet connection. The **ISONA Secure Automation Gateway (SAG)** is used for this purpose, serving as a central VPN gateway, authentication server, and management system. Regardless of where your plant or control unit is located, process data and system visualizations are available to you anywhere via a secure VPN connection. Two configurable digital inputs enable the sending of alarm emails, including to multiple recipients.

Using the **ISONA Automation WebCenter** (web portal), the two integrated digital outputs can be switched remotely.



This makes it possible to monitor the system status remotely and control devices (on/off) via the VDSL VPN firewall router. When used in combination with the **ISONA Automation WebCenter**, the full range of features of these VPN routers comes into play. For example, alarms triggered by digital inputs can be sent directly to an **ISONA Automation WebCenter**, where automatic forwarding of alerts via SMS, fax, or email to any recipient can be configured. The events are also archived in a journal. In addition, data (e.g., meter readings and fault messages) from the control systems behind the VPN router can be transmitted to the **ISONA Automation WebCenter**. An innovative and secure offline configuration concept via USB stick has been implemented for this VPN firewall router, in combination with the **ISONA Automation WebCenter**. This eliminates the need to connect a laptop/PC during the commissioning phase, as well as the time-consuming and error-prone configuration via the local web interface. Moreover, an automatic backup of the configuration settings is created. This product is based on VPN routers specially adapted for **ISONA** by our German technology partner – the devices are proudly Made in Germany.

Features

- OpenVPN client
- Integrated firewall
- Permanent outgoing VPN tunnel or temporary VPN tunnel controlled via key switch 3 LAN ports (switch)
- Two configurable digital inputs and outputs each, email alert in case of a fault signal at the digital input
- Wide input voltage range from 10 V/DC to 55 V/DC
- Extended temperature range, optional: integrated heating element for outdoor operation, functional even at extreme sub-zero temperatures
- Integrated surge protection
- Simple offline configuration via USB stick in combination with an ISONA Automation WebCenter
- Fully compatible with the ISONA Secure Automation Gateway (SAG) and the ISONA Automation WebCenter (web portal), enabling remote firmware updates and configuration changes from the Automation WebCenter
- Innovative: Access to web-based frontends of controllers or similar devices on the router's LAN port also possible via HTTPS, as an alternative for sites where VPN tunnels are not permitted

Technical Data

Power supply

- **Supply voltage:** 10- 55 V DC (via pluggable screw terminals)
- **Rated current consumption:** < 250 mA with 24 V DC, < 500 mA with 10 V DC
- **LED-Displays:** PWR (Power), VPN (VPN Tunnel active), INET (Internet active), DSL (DSL active), WIFI (without function at the moment)

Interfaces

- **VDSL/ADSL-Schnittstelle**
 - **Protocols:** VDSL2: G.993.2 Profile 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a, VDSL2 Vectoring G.993.5, ADSL/ADSL2/ADSL2+: ITU-T G.992.1 Annex B, G.992.3 Annex B, G.992.5 Annex B und J
 - **DSL-Connection:** RJ11-Socket or via pluggable screw terminals
 - **DSL-Status LEDs:** DSL (LED green) Blinking: DSLAM is connecting | On: DSL is connected
INET (LED grün) Blinking: Internet is connecting | On: Internet is connected
- **Ethernet-Interface**
 - **LAN-Ports:** 3 RJ45-Sockets
 - **LAN-Operating mode:** Switch with 1x 1 GBit-LAN (LAN1) + 2x 100 MBit-LAN (LAN2 + LAN3)
 - **LEDs (LAN-Sockets):** ACT (LED yellow), Ethernet data transmission; LINK (LED green), Ethernet-Link connected
 - **Supported protocols:** TCP/IP, UDP/IP, FTP, HTTP, HTTPS
 - **Auxiliary protocols:** ARP, DHCP, PING (ICMP), SNMP V1, V2, V3, SMTP
- **Serial Interfaces, I/Os**
 - **Serial Interfaces:** optional: RS232-Interface
 - **Digital I/Os:**
 - 2 digital inputs
 - 2 digital outputs
 - Connection via pluggable screw terminals

Physical characteristics

- **Dimensions:** 106x40x80 mm
- **Ambient temperature range:** Operation 0 to +60°C, Storage -20 to +85°C | optional with integrated heater: Operation -20 to +60°C
- **Relative humidity:** 0 - 95% (not condensed)
- **Protection rating:** IP30

CE compliance

- **EMV:** EN 61000-6-2, EN55022 Class B
- **Safety:** EN60950