

Fault Monitor With Modbus Monitoring

IMO-2

Type	Transmission technology							
	LTE	UMTS/HSPA	GSM/GPRS	xDSL	Ethernet	WLAN	Analogue	ISDN
Switch cabinet serial	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Switch cabinet network	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Desktop Devices		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>
19" rack							<input type="checkbox"/>	<input type="checkbox"/>
Embedded modules	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Cellular fault transmitter with monitoring function

The GPRS fault monitor IMO-2 monitors Modbus controls and devices. When thresholds are exceeded, messages are automatically dispatched via SMS or e-mail. These messages are configurable and can also contain the actual values of monitored values of digital and analogue devices (e.g. Modbus registers). Applications are connected serial (RS232, RS485), via network and digital inputs and outputs. The integrated web server serves for configuration and displaying the actual status of selected values and registers.

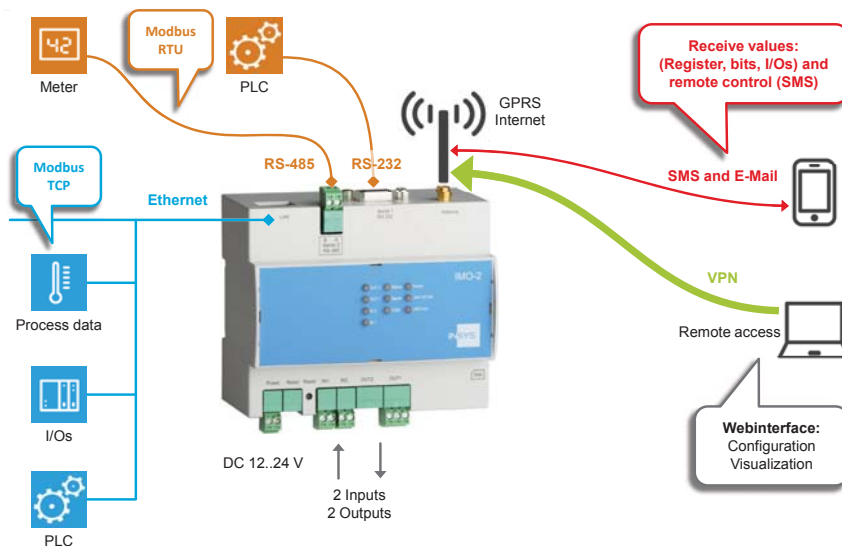
IMO-2 is ready for secure and easy VPN connections using the INSYS Connectivity Service that allows free access to the web interface and local devices in all networks. The embedded Linux system is available for the user in a safe sandbox environment with 150 MB permanent file system for own applications, like data recording and evaluation, protocol conversion and simple control tasks for example.

Features

- GPRS fault monitor with VPN functionality
- Monitoring via Modbus TCP/RTU
- Alarming by SMS and e-mail
- Visualisation of monitored values and registers
- 1 LAN interface
- 2 serial interfaces (RS232/RS485)
- 2 x 2 digital in- and outputs
- Open for own applications (Linux sandbox)
- Quick start for INSYS Connectivity Service

Applications

- Building automation
- Industry automation
- Energy management
- Electric mobility
- Measurement technology



Technical Data

IMO-2

Cellular radio		
Frequency	850/900/1800/1900 MHz	
Services	GPRS Class 10, GSM CSD (incoming and outgoing), SMS (incoming and outgoing)	
Antenna	SMA	
SIM card	1 slot for Mini-SIM card	
Monitoring		
Monitored events	Digital inputs, Modbus register (TCP, RTU), timer, received SMS	
Elements	Variable combinations of monitored values with logical functions	
Actions	Sending messages, switching digital outputs, writing Modbus registers, calling an http page	
Messages	SMS, e-mail. Text freely configurable, also current values of monitored registers	
Router		
Function	Dial-in, dial-out, callback, connection management, DHCP server, Full NAT (IP forwarding, port forwarding, netmapping), DNS relay, dynDNS support, NTP client and server, buffered real-time clock	
Security	OpenVPN (client and server), IPsec, PPTP, firewall, 10 users for dial-in, Authentication via PAP/CHAP/MS-CHAP/MS-CHAP 2, dial filter for dial-out	
LAN	1x Ethernet RJ45 (10/100 Mbps, MDI/MDI-X, auto bauding)	
System messages	Message via SMS, e-mail and SNMP upon start, connection establishment, VPN tunnel, SMS receipt, firewall rejection, web interface registration, link up/down, configuration change, automatic update	
Serial interface		
RS232 (Serial1)	1 x RS232/D-SUB-9(f): Serial Ethernet gateway (incoming and outgoing connections, Modbus TCP/RTU gateway, modem emulation)	
RS485 (Serial2)	Plug-in screw terminal RS485 A / RS485 B	
Configuration		
Router	Web interface local and remote, text and binary file, automatic updates	
Monitoring	Web interface local and remote	
Inputs/Outputs		
Digital inputs	2x via pluggable screw terminal, activated by connection to GND	
digital outputs	2x via pluggable screw terminal, potential-free change-over relay	
Programming		
	User access to embedded Linux (sandbox), 150 MB permanent memory, Socket access, example programs: e-mail and SMS client, serial logger, etc.	
Supply		
Voltage	12 .. 24 V DC (+/- 20%)	
Power consumption	approx. 1 W (logged in), max. 3 W (during connection)	
Physical features		
Assembly	DIN rail	
Size (WxDxH)	106 mm x 62 mm x 90 mm	
Operating temperature	-30...+70 °C -30...+80 °C under limited conditions (refer to www.insys-icom.com/restricted)	
Humidity	0 .. 95% (non-condensing)	
Approvals & Standards		
	CE, R&TTE (standards: EN 55022 Class B, EN 55024, EN 301489-1, EN 301489-7, EN60950), FCC, IC	
Product Description		Order number
IMO-2 1.1	GPRS Fault Monitor	10015558

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