

# Fault monitor for Siemens LOGO!™

## IMON-G100

Type	Transmission technology							
	LTE	3G (UMTS/HSPA)	2G (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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19" rack	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>

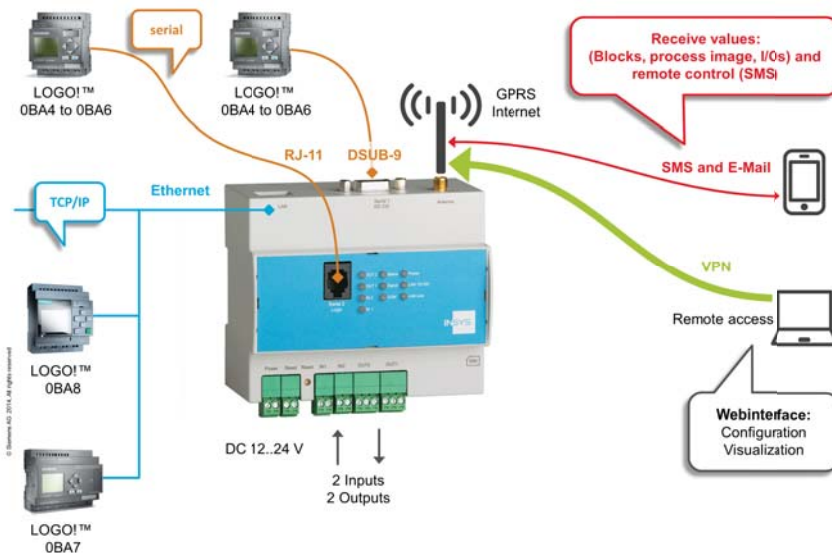


### Cellular fault monitor with monitoring function

IMON-G100 is a GPRS fault monitor for monitoring digital sensors, measuring devices and several Siemens LOGO!™ micro controllers. All objects of the Siemens LOGO!™ like I/Os, flags and keys can trigger actions like starting/stopping the control using flexible, logic combination of freely selectable elements. User-configurable SMS or e-mails with actual values and switching outputs are possible thus. Incoming SMS or changes at the digital inputs can also be combined. The integrated web server serves for configuration and displaying the status of selected values and registers - also via GPRS remote access. IMON-G100 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.

### Features

- GPRS fault monitor with VPN functionality
- Monitoring of I/Os and Siemens LOGO!™
- Alarming via SMS and e-mail
- Visualising monitored values and registers
- 1 LAN interface
- 2 serial interfaces (LOGO!™/RS232)
- 2 x 2 digital inputs and outputs
- Open for own applications (Linux sandbox)
- Quick start for INSYS Connectivity Service
- Optional monitoring packages for Siemens S7 and Modbus TCP/RTU controls



## Technical Data

### IMON-G100

<b>Cellular radio</b>	
Frequency	850/900/1800/1900 MHz
Services	GPRS Class 10, GSM CSD (incoming and outgoing), SMS (incoming and outgoing)
Antenna	SMA connector
SIM	1 slot for Mini-SIM
<b>Router</b>	
Function	Dial-in, dial-out, callback, connection management, DHCP server, Full NAT (port forwarding, netmapping), DNS relay, dynDNS support, SNMP NTP client and server, buffered real-time clock
Security	OpenVPN (client and server), IPsec, PPTP, Firewall, 10 user for dial-in, authentication via PAP/CHAP/MS-CHAP/MS-CHAP 2, dial filters for dial-out, link loss detection, failed login detection, GRE
LAN	1x Ethernet RJ45 (10/100 Mbps, MDI/MDI-X, auto bauding)
System messages	Message via SMS, e-mail and SNMP about start, connection establishment, VPN tunnel, SMS receipt, automatic update
<b>Serial interface</b>	
RS232	1 x RS232/D-SUB-9(f): Serial-Ethernet gateway (incoming and outgoing connections, Modbus TCP/RTU gateway, modem emulation) or connector for a Siemens LOGO!™ connection cable
LOGO!™	1 x RJ11: Connector for SIEMENS LOGO!™ connection cable
<b>Configuration</b>	
Router	Web interface local and remote, text and binary file, automatic updates
Monitoring	Web interface local and remote, MySQL database
<b>Inputs/Outputs</b>	
Digital inputs	2x via pluggable screw terminal, activated by connection to GND
digital outputs	2x via pluggable screw terminal, potential-free change-over relay
<b>Programming</b>	
	User access to embedded Linux (sandbox), 150 MB permanent memory, Socket access, example programs: e-mail and SMS client, serial logger, etc.
<b>Supply</b>	
Voltage	12 .. 24 V DC (+/- 20%)
Power consumption	approx. 1 W (logged in), max. 3 W (data transmission)
<b>Physical features</b>	
Assembly	DIN rail
Size (WxDxH)	106 mm x 62 mm x 90 mm
Operating temperature	-30...+70 °C -30...+80 °C under restricted conditions (refer to <a href="http://www.insys-icom.de/restricted">www.insys-icom.de/restricted</a> )
Humidity	0 .. 95% (non-condensing)
<b>Approvals &amp; Standards</b>	
	CE, R&TTE (standards: EN 55022 Class B, EN 55024, EN 301489-1, EN 301489-7, EN60950), FCC, IC

## Technical Data

### IMON-G100

#### Monitoring

Monitoring package LOGO!™ already activated, monitoring packages for Siemens S7 and Modbus TCP/RTU controls available optionally

Monitoring elements	2 digital inputs, timers, incoming SMS, internal flags
Monitoring of objects of the LOGO!™ 0BA4 through 0BA7	Inputs, flags, outputs, communication status, digital shift registers, function and cursor keys, function blocks, program status
Monitoring of objects of the LOGO!™ 0BA8	Inputs, flags, outputs, communication status, VM parameters
Variable combination of the elements in logic functions	AND, OR, NOR, NAND, XOR
Actions	Starting/stopping LOGO!™ 0BA4 through 0BA7, writing (monitored) LOGO!™ 0BA8 objects, switching digital outputs, http call, starting timers, dispatching messages
Messages	SMS, E-mail: Freely configurable text, also actual values from monitored elements

Product description		Order number
IMON-G100 1.2	GPRS fault monitor	10014445
IMON-G100 1.2 KIT	Fault monitor + LOGO! connection cable + magnetic base antenna	10014791
LOGO! connection cable RJ 2.0	Connection to front socket	10014659
LOGO! connection cable DSUB 2.0	Connection for socket at the top	10014658
Monitoring App	Free update under <a href="http://www.insys-icom.com/monitoring-app">www.insys-icom.com/monitoring-app</a>	
Monitoring package Modbus	Licence for monitoring Modbus TCP/RTU, function codes 1-6	10017305
Monitoring Package S7	Licence for monitoring Siemens S7-200/-300/-400/-1200/-1500	10017306

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