

Condition Monitoring With INSYS Routers

Monitoring App



Available for:



Monitoring, alarming, visualisation and remote operation in one solution

The INSYS icom Monitoring App allows an easy and efficient monitoring of controls and other analogue and digital devices. In addition, the inputs of our IMON series will also be monitored. Measuring values, events and alarms can be transmitted to customer-specific infrastructures and cloud solutions for visualisation and further processing (separate cloud account required). Elements to be monitored, desired actions and involved persons can be combined using logic operations. Individual monitoring operations can be linked in series. This also allows escalating alarms amongst others. Combined applications with the integrated Linux environment (INSYS Sandbox) are also possible with all router series.

How to get the Monitoring App:

Download the Monitoring App for free, upload it to your fault monitor or industrial router from INSYS icom and order a licence for one or more monitoring packages via e-mail or by phone from us. Just let us know the package you want and the serial number of your device. We'll then send you the licence key via e-mail. Enter, activate and monitor!

Your Benefits

- Monitoring packages for Siemens LOGO!™, S7 and Modbus TCP/RTU, combinable
- Support of the IoT protocol MQTT
- Transmission of measurements, events, alarms to the Cumulocity Cloud
- Secure access to monitored device
- Simultaneous monitoring of several devices
- No intervention in the program of the monitored device
- Free updates
- Operation via web interface

Supported are:

- Siemens LOGO!™ 0BA4 through 0BA8
- Siemens S7 200/-300/-400/-1200/-1500
- Siemens S5
- Modbus TCP/RTU function codes 1-6
- Cumulocity Cloud, Telekom Cloud of Things

IoT platforms via MQTT, including.:

- M2MGO
- CENTERSIGHT®
- IBM Bluemix
- Microsoft Azure

Monitoring package overview (can be combined):

Monitoring Package	IMON-G100	IMON-G200	IMON-U300/310	EBW series	MoRoS series
Siemens LOGO!™	included	upgrade	included	upgrade	upgrade
Siemens S7	upgrade	upgrade	upgrade	upgrade	upgrade
Modbus TCP/RTU	upgrade	included	included	upgrade	upgrade

Technical Data

Monitoring App

Monitoring App

Basic monitoring function

Monitoring elements	Timer, incoming SMS for cellular devices, internal flags, 2 digital inputs with all routers of the IMON series
Protocols	MQTT (publisher, subscriber), LOGO!™, S7 (incl. real), S5, Modbus TCP/RTU (incl. float), further protocols via additional Application Connectors possible
Variable combination of the elements in logic functions	AND, OR, NOR, NAND, XOR
Actions	Sending messages (SMS, e-mail, MQTT, HTTP (GET)), switching digital outputs of all routers of the IMON series, starting timers
Messages	SMS*, e-mail: text freely definable, current values of the monitored elements, current values of system variables**, Cumulocity Cloud: transmission of measurements, events, alarms to the cloud (central data acquisition, easy visualisation of parameters in diagrams)

* only cellular router ** time, date, UTC timestamp, uptime, location, serial number, cellular signal strength

Monitoring packages (can be combined)

Enhanced monitoring capabilities by obtaining monitoring package licences

Monitoring package LOGO!™ (already activated on IMON-G100 and IMON-U300/-U310)	
Monitoring objects of Siemens LOGO!™ 0BA4 through 0BA7	Inputs, flags, outputs, communication status, digital shift registers, function and cursor keys, function blocks, program status
Monitoring objects of Siemens LOGO!™ 0BA8	Inputs, flags, outputs, communication status, VM parameters
Actions for Siemens LOGO!™ 0BA4 through 0BA7	Starting/stopping the LOGO!™
Actions for Siemens LOGO!™ 0BA8	Writing of (monitored) objects

Monitoring package Modbus (already activated on IMON-G200 and IMON-U300/-U310)	
Monitoring of Modbus registers (TCP, RTU)	Holding registers, bits of holding registers, input registers, bits of input registers, communication status, coils, discrete inputs Data types: 16 bit unsigned integer, boolean (discrete values)
Actions	Writing of (monitored) registers

Note: ModbusRTU connection with IMON-G200 and IMON-U300/-U310 (with RS485) directly or with IMON-G100/MoRoS via RS232 with additional converter

Monitoring Package S7	
Monitoring of S7*/S5** objects	Inputs, outputs, flags, data blocks, communication status
Actions	Writing of (monitored) objects

* S7 200, 300, 400, 1200 and 1500. Connection takes place directly (TCP/IP) via an Ethernet interface of the INSYS router or indirectly (MPI, Profibus or PPI) via an ACCON-NetLink-Pro compact adapter.

** Connection takes place directly (TCP/IP) via an Ethernet interface of the INSYS router or indirectly via an ACCON-S5-LAN adapter.

Product description	Order number
Monitoring App	Free download under www.insys-icom.com/monitoring-app
Monitoring package Logo	Licence for monitoring Siemens LOGO!™ 0BA4 through 0BA8 10017303
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 as well Siemens S5 10017306

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