

INSYS Smart Device Monitoring App

Transmitting Switch Signals Via SMS

Introduction

Copyright © 2024 INSYS icom GmbH

Any duplication of this publication is prohibited. All rights on this publication and the devices are with INSYS icom GmbH Regensburg.

Trademarks

The use of a trademark not shown below is not an indication that it is freely available for use.

MNP is a registered trademark of Microcom Inc.

IBM PC, AT, XT are registered trademarks of International Business Machine Corporation.

Windows™ is a registered trademark of Microsoft Corporation.

Linux is a registered trademark of Linus Torvalds.

INSYS® is a registered trademark of INSYS icom GmbH.

Debian is a registered trademark of Software in the Public Interest, Inc.

The principles of this publication may be transferred to similar combinations. INSYS icom GmbH does not assume liability or provide support in this case. Moreover, it cannot be excluded that other effects or results than described here are produced, if other, similar components are combined and used.

INSYS icom GmbH is not liable for possible damages.

Publisher

INSYS icom GmbH
Hermann-Köhl-Str. 22
D-93049 Regensburg
Germany

Phone +49 941 58692 0
Fax +49 941 58692 45
E-mail info@insys-icom.com
URL <http://www.insys-icom.com>

Print 24. Jan. 2024
Item No. -
Version 1.2
Language EN

1 Introduction

General

The present publication refers to a combination of selected hardware and software components of INSYS icom GmbH as well as other manufacturers. All components have been combined with the target to realize certain results and effects for certain applications in the field of professional data transfer.

The exact descriptions of all used components, to which this publication refers, are described in the tables *Hardware*, *Accessories* and *Software* at the end of this publication.

The symbols and formatings used in this publication are explained in the correspondent section of the device manual.

Some configurations or preparations, which are precondition in this publication, are described in other publications. Therefore, always refer to the related device manuals. INSYS Smart Devices with web interface provide you with helpful information about the configuration possibilities, if you click on "display help text" in the header.

Target of this Publication

An exemplary configuration for a typical fault monitor application is presented here. If your application has similar requirements, you may modify the configuration on the basis of this Configuration Guide.

The level of an upper basin is regulated in an application by switching on a pump at the remote lower basin in case of a low level that will run until the maximum level is achieved. An INSYS IMON fault monitor is installed at the upper basin for this to which two level sensors are connected - one for low and one for maximum level. Another IMON is at the lower basin that actuates the pump via its output. Both IMONs communicate with each other via SMS.

In case of a low level, the level sensor will activate an input at the IMON. Thereupon, this will send an SMS with the command for switching on the pump to the other IMON. A timer will start simultaneously that will send the SMS again upon its expiry. If the IMON will receive an SMS with the acknowledgement of receipt from the other IMON before the timer expires, the timer will be reset and no SMS will be dispatched any more. Correspondingly, the level sensor for maximum level will activate the other input at the IMON which will cause the dispatch of an SMS with the command for switching off the pump to the other IMON. The SMS will also be sent again here upon expiry of the timer, if now acknowledgement is received.

The IMON at the lower basin will switch on the pump and send the SMS with the acknowledgement of receipt to the other IMON upon receipt of the SMS with the switch on command. A timer will start simultaneously that will switch off the pump

Introduction

upon expiry of the maximum pump time to avoid overfilling. If the IMON will receive an SMS with the switch off command, it will switch off the pump again and send the SMS with the acknowledgement of receipt to the other IMON.

The following describes how to configure the monitoring application of two INSYS IMON fault monitors such that they fulfil above described task. It is prerequisite here that the fault monitors are ready for operation, i.e. a SIM card is inserted and they are configured accordingly.

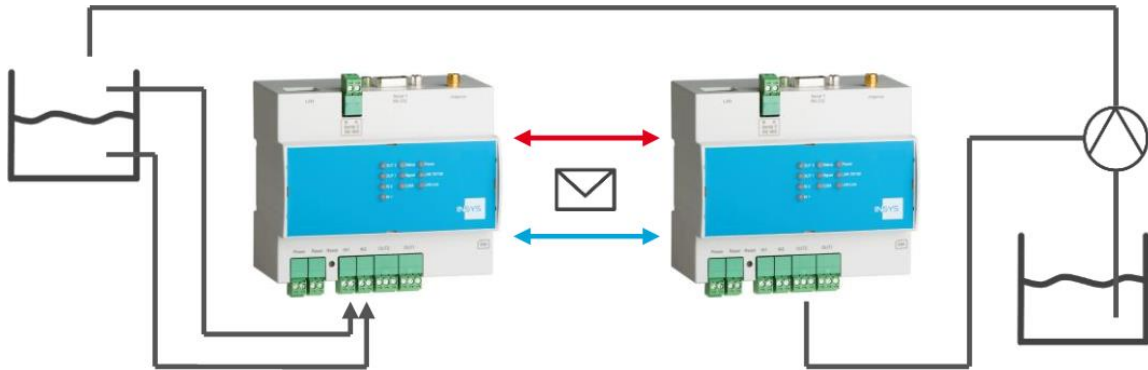


Figure 1: Transmitting switch signals via SMS – overview

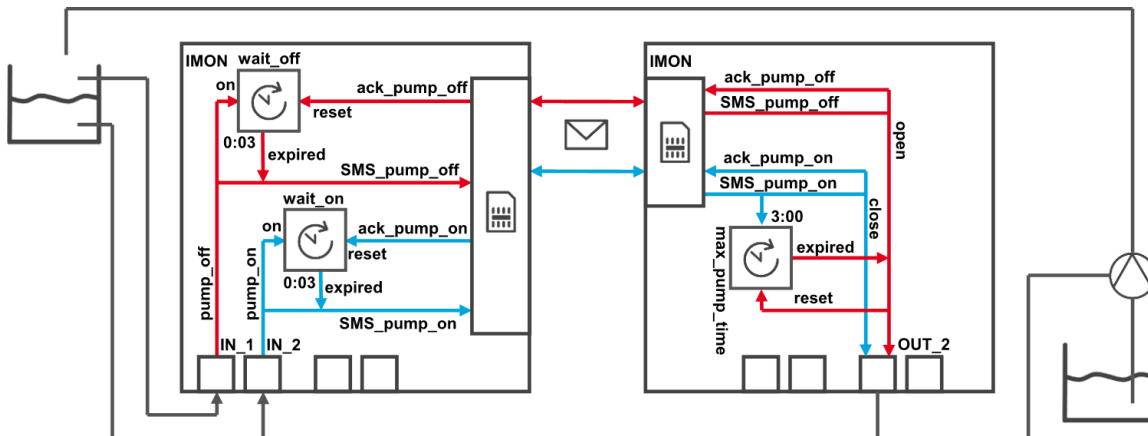


Figure 2: Transmitting switch signals via SMS – simplified diagram

2 Summary

Fault monitor configuration

How to configure two INSYS fault monitors for transmitting switch signals via SMS to operate a pump level-dependent. You will find detailed step by step instructions in the following section.

■ IMON at upper basin

- Add device "IMON" with the type "I/O"
- Add element "IN_1" as input 1 of the IMON
- Add element "IN_2" as input 2 of the IMON
- Add element "wait_off" as stop watch timer with 3 minutes
- Add element "wait_on" as stop watch timer with 3 minutes
- Add contact "Pump" with mobile phone number
- Add monitoring "pump_off" (input IN_1 closes)
- Add monitoring "pump_on" (input IN_2 closes)
- Add monitoring "wait_off_exp" (wait_off expired)
- Add monitoring "wait_on_exp" (wait_on expired)
- Add monitoring "ack_pump_off" as message from "Pump"
- Add monitoring "ack_pump_on" as message from "Pump"
- Add action "SMS_pump_off" as message to "Pump"
- Add action "SMS_pump_on" as message to "Pump"
- Add action "wait_off_start" (start wait_off)
- Add action "wait_on_start" (start wait_on)
- Add action "wait_off_reset" (reset wait_off)
- Add action "wait_on_reset" (reset wait_on)
- Add assignment "pump_off" to "SMS_pump_off"
- Add assignment "pump_off" to "wait_off_start"
- Add assignment "pump_on" to "SMS_pump_on"
- Add assignment "pump_on" to "wait_on_start"
- Add assignment "ack_pump_off" to "wait_off_reset"
- Add assignment "ack_pump_on" to "wait_on_reset"
- Add assignment "wait_off_exp" to "SMS_pump_off"
- Add assignment "wait_off_exp" to "wait_off_start"

- Add assignment "wait_on_exp" to "SMS_pump_on"
- Add assignment "wait_on_exp" to "wait_on_start"

■ IMON at lower basin

- Add device "IMON" with the type "I/O"
- Add element "OUT_2" as output 2 of the IMON
- Add element "max_pump_time" as stop watch timer with 3 hours
- Add contact "Sensor" with mobile phone number
- Add monitoring "SMS_pump_off" as message from "Sensor"
- Add monitoring "SMS_pump_on" as message from "Sensor"
- Add monitoring "max_pump_time_exp" (max_pump_time expired)
- Add action "ack_pump_off" as message to "Sensor"
- Add action "ack_pump_on" as message to "Sensor"
- Add action "max_pump_time_start" (start max_pump_time)
- Add action "max_pump_time_reset" (reset max_pump_time)
- Add action "OUT_2_open" as opening of output 2 of the IMON
- Add action "OUT_2_close" as closing of output 2 of the IMON
- Add assignment "SMS_pump_off" to "OUT_2_open"
- Add assignment "SMS_pump_off" to "ack_pump_off"
- Add assignment "SMS_pump_off" to "max_pump_time_reset"
- Add assignment "SMS_pump_on" to "OUT_2_close"
- Add assignment "SMS_pump_on" to "ack_pump_on"
- Add assignment "SMS_pump_on" to "max_pump_time_start"
- Add assignment "max_pump_time_exp" to "OUT_2_open"

3 Configuration

Provisions

It is recommended to commission the router as suggested in the Quick Installation Guide. Different settings of the router may result in necessary adjustments of the settings described in the following. Please prepare the following items before starting the configuration of the application:

- **Connection to the router**

- You have access to the Monitoring App of the router via your web browser.

- **Configurations in the router**

- The router is logged in to the cellular network (configuration via startup wizard or in "GSM / GPRS" or "UMTS" menu).
- The router can receive SMS (the Service Center Number is specified and SMS reception is activated in the "Messages" menu on the "Configuration" page).

Configuration of the Monitoring App (IMON at upper basin)

A functional Monitoring App requires to add the individual devices, elements, logic operations, recipients, monitorings and actions as well as the assignment of actions to monitorings.

i *This configuration serves for the IMON at the upper basin to which the level sensors are connected.*

Perform the following steps for this:

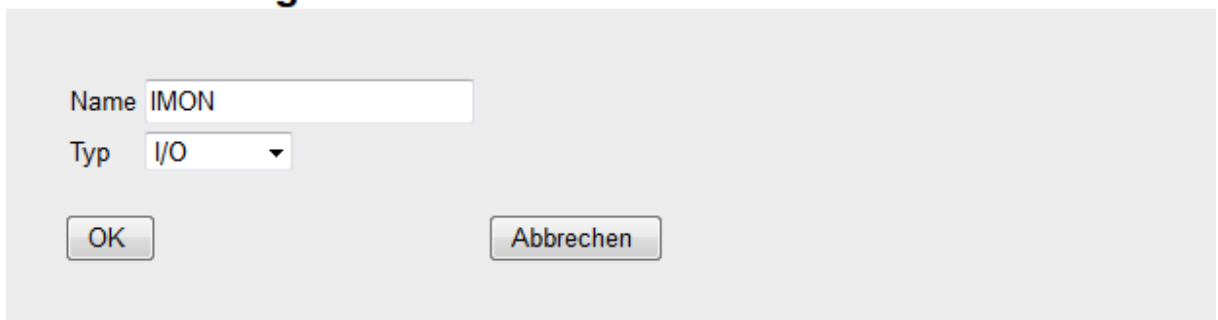
- Adding devices
- Adding elements
- Adding recipients
- Adding monitorings
- Adding actions
- Adding assignments

■ Adding devices

How to add the necessary devices for the Monitoring App. It is necessary to add the inputs and outputs of the fault monitor as a device for this application.

1. Select in the menu the page → Setup application → Devices
2. Select the **Add device** button
 - ✓ The "Add device" page appears.
3. Enter "IMON" as name and select the type "I/O"

Gerät hinzufügen



The screenshot shows a dialog box with a light gray background. At the top, there is a label 'Name' followed by a text input field containing the text 'IMON'. Below this is a label 'Typ' followed by a dropdown menu with 'I/O' selected. At the bottom of the dialog, there are two buttons: 'OK' on the left and 'Abbrechen' on the right.

4. Click on **OK**
 - ✓ You have added the devices that are necessary for the application with this.

■ Adding elements

How to add the necessary elements for the Monitoring App. It is necessary to add input 1 and 2 as well as two timers as elements for this application.

1. Select in the menu the page → Setup application → Elements
2. Select the **Add Element** button
 - ✓ The "Add element" page appears.
3. Enter "IN_1" as name and select "IO", "IMON" and "Input" under Device
4. Enter "1" as number for input 1 of the fault monitor

Element hinzufügen

5. Click on **OK**
6. Select the **Add element** button again and add the elements "IN_2" (input 2), "wait_off" (stop watch timer with 3 minutes) and "wait_on" (stop watch timer with 3 minutes) one after another
 - ✓ The elements appear in the respective list one after another.

Elemente

Element hinzufügen

aktiv			Name	Gerät / Quelle
<input checked="" type="checkbox"/>			IN_1 (IO)	Eingang 1
<input checked="" type="checkbox"/>			IN_2 (IO)	Eingang 2
<input checked="" type="checkbox"/>			wait_off (Timer)	Stoppuhr 00:03:00
<input checked="" type="checkbox"/>			wait_on (Timer)	Stoppuhr 00:03:00

- ✓ You have added the elements that are necessary for the application with this.

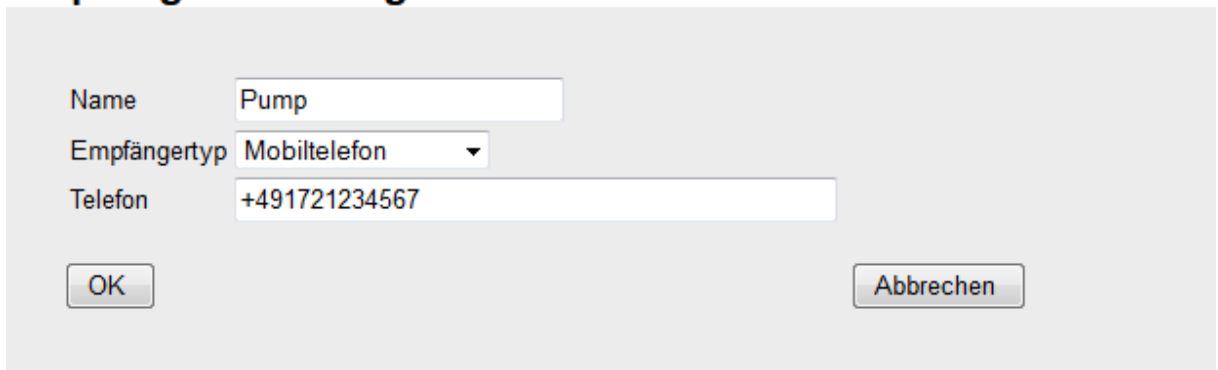
Configuration

■ Adding recipients

How to add the necessary recipients for the Monitoring App. It is necessary to add the mobile phone number of the IMON at the lower basin for the receipt of the SMS and the transmission of the acknowledgements for this application.

1. Select in the menu the page → Setup application → Recipients
2. Select the **Add recipient** button
 - ✓ The "Add recipient" page appears.
3. Enter "Pump" as name
4. Select the recipient type "Mobile phone"
5. Enter the mobile phone number

Empfänger hinzufügen



Name

Empfängertyp

Telefon

6. Click on **OK**
 - ✓ You have added the recipients that are necessary for the application with this.

■ Adding monitoring operations

How to add the monitoring operations for the Monitoring App. It is necessary to monitor the inputs 1 and 2, the expiration of both timers and the receipt of the acknowledgement SMS for this application.

1. Select in the menu the page → Monitoring
2. Select the **Add monitoring** button
 ✓ The "Add monitoring" page appears.
3. Enter "pump_off" as name and select "Element", "IN_1" and "closes" under Source

Überwachung hinzufügen



4. Click on **OK**
5. Select the **Add monitoring** button again and add the monitorings "pump_on" (input 2 closes), "wait_off_exp" (wait_off expired) and "wait_on_exp" (wait_on expired) one after another
6. Select the **Add monitoring** button
7. Enter "ack_pump_off" as name and select "Message" under Source
8. Highlight "Pump" under Sender and select the **>>** button
9. Enter the text that must be contained by the acknowledgement SMS under Message

Überwachung hinzufügen

10. Click on **OK**
11. Select the **Add monitoring** button again and add the monitoring "ack_pump_on" (acknowledgement SMS from "Pump")
 - ✓ The monitorings appear in the respective list one after another.

Überwachungen

Überwachung hinzufügen

aktiv			Name	Überwachung
<input checked="" type="checkbox"/>			pump_off	IN_1 schließt
<input checked="" type="checkbox"/>			pump_on	IN_2 schließt
<input checked="" type="checkbox"/>			wait_off_exp	wait_off abgelaufen
<input checked="" type="checkbox"/>			wait_on_exp	wait_on abgelaufen
<input checked="" type="checkbox"/>			ack_pump_off	Nachricht von Pump pump is off
<input checked="" type="checkbox"/>			ack_pump_on	Nachricht von Pump pump is on

- ✓ You have added the monitoring operations that are necessary for the application with this.

■ Adding actions

How to add the actions for the Monitoring App. It is necessary to send the SMS with the commands for switching the pump on and off as well as start and reset the two timers for this application.













1. Select in the menu the page → Actions → Definitions
2. Select the **Add action** button
 - ✓ The "Add action" page appears.
3. Enter "SMS_pump_off" as name and select "Message" under Target
4. Highlight "Pump" under Recipient and select the **>>** button
5. Enter the SMS text under Message

Aktion hinzufügen

6. Click on **OK**
7. Select the **Add action** button and add the actions "SMS_pump_on" (SMS for activating the pump), "wait_off_start" (start timer wait_off), "wait_on_start" (start timer wait_on), "wait_off_reset" (reset timer wait_off) and "wait_on_reset" (reset timer wait_on) one after another
 - ✓ The actions appear in the respective list one after another.

Definition Aktionen

Aktion hinzufügen

aktiv			Name	Aktion
<input checked="" type="checkbox"/>			SMS_pump_off	Nachricht an Pump pump off
<input checked="" type="checkbox"/>			SMS_pump_on	Nachricht an Pump pump on
<input checked="" type="checkbox"/>			wait_off_start	wait_off starten
<input checked="" type="checkbox"/>			wait_on_start	wait_on starten
<input checked="" type="checkbox"/>			wait_off_reset	wait_off zurücksetzen
<input checked="" type="checkbox"/>			wait_on_reset	wait_on zurücksetzen

- ✓ You have added the actions that are necessary for the application with this.

■ Adding assignments

How to add the assignments for the Monitoring App. It is necessary to assign the respective actions to the monitorings for this application.

1. Select in the menu the page → Actions → Assignments
2. Select the **Add assignment** button
 - ✓ The "Add assignment" page appears.
3. Select "pump_off" as Monitoring and "SMS_pump_off" as Action











Zuordnung hinzufügen

The screenshot shows a dialog box titled "Zuordnung hinzufügen". It contains two dropdown menus. The first dropdown, labeled "Überwachung", has "pump_off" selected. The second dropdown, labeled "Aktion", has "SMS_pump_off" selected. Between the two dropdowns is a right-pointing arrow "->". Below the dropdowns are two buttons: "OK" on the left and "Abbrechen" on the right.

4. Click on **OK**
5. Select the **Add assignment** button again and add the assignments "pump_off" to "wait_off_start", "pump_on" to "SMS_pump_on", "pump_on" to "wait_on_start", "ack_pump_off" to "wait_off_reset", "ack_pump_on" to "wait_on_reset", "wait_off_exp" to "SMS_pump_off", "wait_off_exp" to "wait_off_start", "wait_on_exp" to "SMS_pump_on" and "wait_on_exp" to "wait_on_start" one after another
 - ✓ The assignments appear in the respective list one after another.

Zuordnungen

Zuordnung hinzufügen

aktiv			Überwachung	Aktion
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	pump_off	SMS_pump_off
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	pump_off	wait_off_start
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	pump_on	SMS_pump_on
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	pump_on	wait_on_start
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	ack_pump_off	wait_off_reset
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	ack_pump_on	wait_on_reset
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	wait_off_exp	SMS_pump_off
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	wait_off_exp	wait_off_start
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	wait_on_exp	SMS_pump_on
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	wait_on_exp	wait_on_start

✓ You have added the assignments that are necessary for the application with this.

Configuration of the Monitoring App (IMON at lower basin)

A functional Monitoring App requires to add the individual devices, elements, logic operations, recipients, monitorings and actions as well as the assignment of actions to monitorings.

i *This configuration serves for the IMON at the lower basin to which the pump is connected.*

Perform the following steps for this:

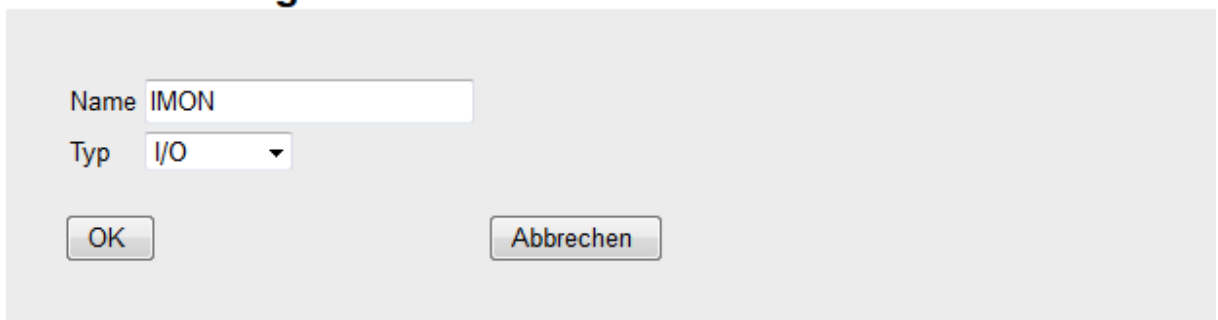
- Adding devices
- Adding elements
- Adding recipients
- Adding monitorings
- Adding actions
- Adding assignments

■ Adding devices

How to add the necessary devices for the Monitoring App. It is necessary to add the inputs and outputs of the fault monitor as a device for this application.

1. Select in the menu the page → Setup application → Devices
2. Select the **Add device** button
 - ✓ The "Add device" page appears.
3. Enter "IMON" as name and select the type "I/O"

Gerät hinzufügen



The screenshot shows a dialog box for adding a device. It has two input fields: 'Name' with the value 'IMON' and 'Typ' with a dropdown menu showing 'I/O'. At the bottom, there are two buttons: 'OK' and 'Abbrechen'.

4. Click on **OK**
 - ✓ You have added the devices that are necessary for the application with this.

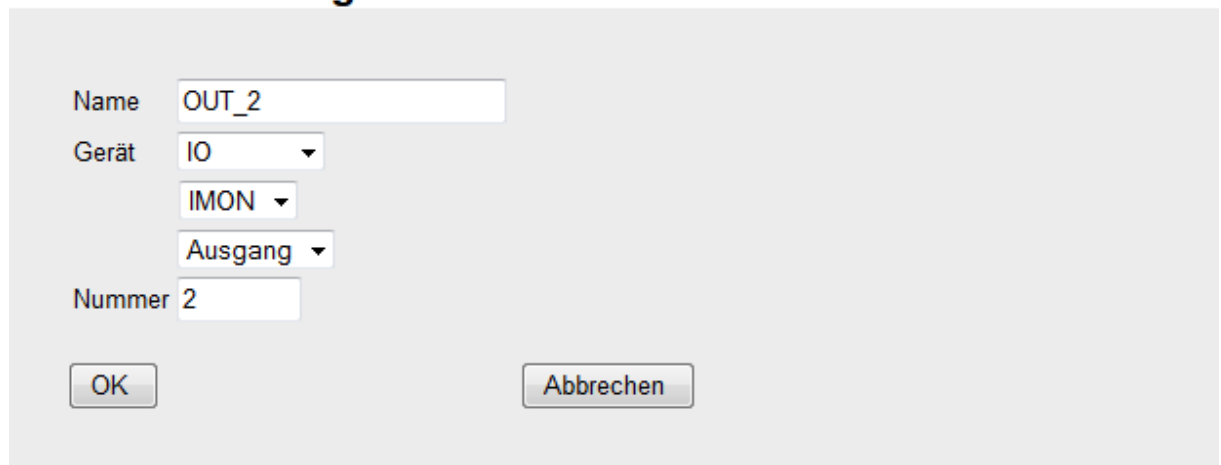
Configuration

■ Adding elements

How to add the necessary elements for the Monitoring App. It is necessary to add output 2 as well as a timer as elements for this application.

1. Select in the menu the page → Setup application → Elements
2. Select the **Add Element** button
 - ✓ The "Add element" page appears.
3. Enter "OUT_2" as name and select "IO", "IMON" and "Output" under Device
4. Enter "2" as number for output 2 of the fault monitor

Element hinzufügen







Name

Gerät

Nummer

5. Click on **OK**
6. Select the **Add element** button again and add the element „max_pump_time“ (stop watch timer with 3 hours)
 - ✓ The elements appear in the respective list one after another.

Elemente

aktiv		Name	Gerät / Quelle
<input checked="" type="checkbox"/>	 	OUT_2 (IO)	Ausgang 2
<input checked="" type="checkbox"/>	 	max_pump_time (Timer)	Stoppuhr 03:00:00

- ✓ You have added the elements that are necessary for the application with this.

■ Adding recipients

How to add the necessary recipients for the Monitoring App. It is necessary to add the mobile phone number of the IMON at the upper basin for the receipt of the SMS and the transmission of the acknowledgements for this application.

1. Select in the menu the page → Setup application → Recipients
2. Select the **Add recipient** button
 - ✓ The "Add recipient" page appears.
3. Enter "Sensor" as name
4. Select the recipient type "Mobile phone"
5. Enter the mobile phone number

Empfänger hinzufügen

6. Click on **OK**
 - ✓ You have added the recipients that are necessary for the application with this.

Configuration

■ Adding monitoring operations

How to add the monitoring operations for the Monitoring App. It is necessary to monitor the receipt of the command SMS as well as the expiry of the timer for this application.

1. Select in the menu the page → Monitoring
2. Select the **Add monitoring** button
 - ✓ The "Add monitoring" page appears.
3. Enter "SMS_pump_off" as name and select "Message" under Source
4. Highlight "Sensor" under Sender and select the **>>** button
5. Enter the text that must be contained by the acknowledgement SMS under Message







Überwachung hinzufügen

The screenshot shows a dialog box for adding a monitoring operation. The 'Name' field is filled with 'SMS_pump_off'. The 'Quelle' dropdown menu is set to 'Nachricht'. Below this, there are two lists: 'Absender' (Sender) and 'ausgewählt' (Selected). The 'Absender' list contains 'Beliebiger Absender'. The 'ausgewählt' list contains 'Sensor'. Between these two lists are two buttons: '>>' and '<<'. Below the lists is a text area labeled 'Nachricht' containing the text 'pump off'. At the bottom of the dialog are two buttons: 'OK' and 'Abbrechen'.

6. Click on **OK**
7. Select the **Add monitoring** button again and add the monitorings "SMS_pump_on" (command SMS from "Sensor") and "max_pump_time_exp" (max_pump_time expired) one after another
 - ✓ The monitorings appear in the respective list one after another.

Überwachungen

Überwachung hinzufügen

aktiv			Name	Überwachung
<input checked="" type="checkbox"/>			SMS_pump_off	Nachricht von Sensor pump off
<input checked="" type="checkbox"/>			SMS_pump_on	Nachricht von Sensor pump on
<input checked="" type="checkbox"/>			max_pump_time_exp	max_pump_time abgelaufen

- ✓ You have added the monitoring operations that are necessary for the application with this.

Configuration

■ Adding actions

How to add the actions for the Monitoring App. It is necessary to send the acknowledgement SMS, start and reset the timer as well as open and close output 2 for this application.

1. Select in the menu the page → Actions → Definitions
2. Select the **Add action** button
 - ✓ The "Add action" page appears.
3. Enter "ack_pump_off" as name and select "Message" under Target
4. Highlight "Sensor" under Recipient and select the **>>** button
5. Enter the SMS text under Message

Aktion hinzufügen







The screenshot shows the 'Aktion hinzufügen' (Add Action) configuration interface. It features a form with the following fields and controls:

- Name:** A text input field containing 'ack_pump_off'.
- Ziel:** A dropdown menu set to 'Nachricht'.
- Empfänger:** Two lists of recipients. The left list is labeled 'Absender' and is currently empty. The right list is labeled 'ausgewählt' and contains 'Sensor'. Between the lists are two buttons: '>>' and '<<'.
- Nachricht:** A large text area containing the message 'pump is off'.
- Buttons:** 'OK' and 'Abbrechen' buttons are located at the bottom of the form.

6. Click on **OK**
7. Select the **Add action** button and add the actions "ack_pump_on" (SMS for confirming pump operation), "max_pump_time_start" (start timer max_pump_time), "max_pump_time_reset" (reset timer max_pump_time), "Out_2_open" (open output 2) and "OUT_2_close" (close output 2) one after another
 - ✓ The actions appear in the respective list one after another.

Definition Aktionen

Aktion hinzufügen

aktiv		Name	Aktion
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> ack_pump_off	Nachricht an Sensor pump is off
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> ack_pump_on	Nachricht an Sensor pump is on
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> max_pump_time_start	max_pump_time starten
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> max_pump_time_reset	max_pump_time zurücksetzen
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> OUT_2_open	OUT_2 öffnen
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> OUT_2_close	OUT_2 schließen

- ✓ You have added the actions that are necessary for the application with this.

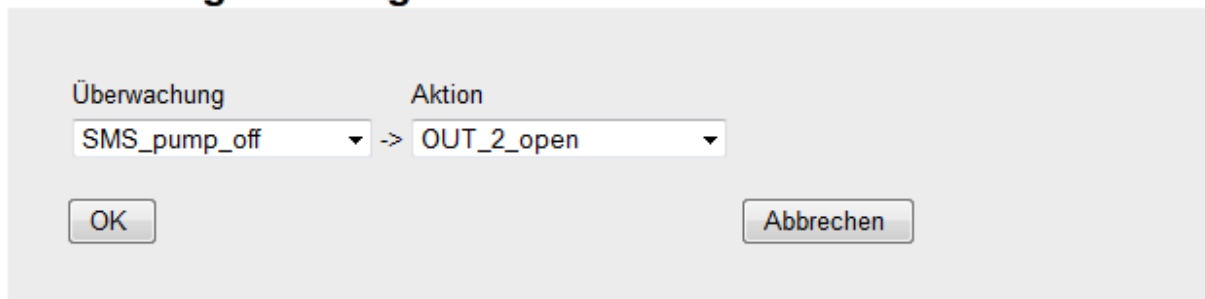
Configuration

■ Adding assignments

How to add the assignments for the Monitoring App. It is necessary to assign the respective actions to the monitorings for this application.

1. Select in the menu the page → Actions → Assignments
2. Select the **Add assignment** button
 - ✓ The "Add assignment" page appears.
3. Select "SMS_pump_off" as Monitoring and "OUT_2_open" as Action








Zuordnung hinzufügen



4. Click on **OK**
5. Select the **Add assignment** button again and add the assignments "SMS_pump_off" to "ack_pump_off", "SMS_pump_off" to "max_pump_time_reset", "SMS_pump_on" to "OUT_2_close", "SMS_pump_on" to "ack_pump_on", "SMS_pump_on" to "max_pump_time_start" and "max_pump_time_exp" to "OUT_2_open" one after another
 - ✓ The assignments appear in the respective list one after another.

Zuordnungen

Zuordnung hinzufügen

aktiv		Überwachung	Aktion
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> SMS_pump_off	OUT_2_open
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> SMS_pump_off	ack_pump_off
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> SMS_pump_off	max_pump_time_reset
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> SMS_pump_on	OUT_2_close
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> SMS_pump_on	ack_pump_on
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> SMS_pump_on	max_pump_time_start
<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/> max_pump_time_exp	OUT_2_open

- ✓ You have added the assignments that are necessary for the application with this.

4 Test

Testing the application

The Monitoring App is active directly after configuration. You can check the correct function directly by closing input 2 of the IMON at the upper basin manually. This should dispatch an SMS to the IMON at the lower basin the, whereupon this closes output 2 to operate the pump.

The status of input 2 is directly indicated on the status page of the web interface of the Monitoring App of the IMON at the upper basin as closed and the timer wait_on starts to run (consider update interval).

Status

Aktualisierung alle <input type="text" value="5"/> Sekunden <input type="button" value="OK"/>		
IMON		
IO	IN_1	0
	IN_2	1
Timer		
	wait_off	not running
	wait_on	0:02:49

Test

The status of output 2 is directly indicated on the status page of the web interface of the Monitoring App of the IMON at the lower basin as closed and the timer max_pump_time starts to run (consider update interval).

Status

Aktualisierung alle <input type="text" value="5"/> Sekunden <input type="button" value="OK"/>		
IMON		
IO	OUT_2	1
Timer		
	max_pump_time	2:02:09

A SIM card must be inserted and the fault monitor must be configured accordingly (PIN, SCN, SMS reception) for receiving and dispatching the SMS for both IMONs.

5 Used Components

Please observe: The power supply units required to operate devices are not listed here in detail. Take care for a provision at the site, if they are not part of the scope of delivery.

Hardware

Description	Manufacturer	Type	Version
Fault monitor	INSYS	IMON-G100 IMON-G200 IMON-U300	Firmware 2.12.5 Monitoring 2.2.0

Table 1: Used hardware

Software

Description	Manufacturer	Type	Version
Operating system	Microsoft	Windows 7	Ultimate SP1
Browser	Mozilla	Firefox	39

Table 2: Used software

Germany

INSYS icom GmbH
Hermann-Köhl-Str. 22
93049 Regensburg
Germany

Phone +49 941 58692 0
Fax +49 941 58692 45

E-mail info@insys-icom.com
URL www.insys-icom.com

Czech Republic

INSYS icom CZ, s.r.o.
Slovanská alej 1993 / 28a
326 00 Plzeň-Východní Předměstí
Czech Republic

Phone +420 377 429 952
Fax +420 377 429 952
Mobile +420 777 651 188

E-mail info@insys-icom.cz
URL www.insys-icom.cz