

## Geräteserie enCore FC1, MC1

Manual Notification AFB

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### **Contents**

1	About this manual	5
2	Functional description	7
	2.1 Enable notifications	8
	2.2 Parameterizing the connection settings of an SMTP serve	er. 9
	2.3 Define the notification rule with a recipient list and message	11
3	Display and operation	13
	3.1 Displays at a glance	13
	3.2 Displays in detail	14
4	Technical data	17
	4.1 Nomenclature	17
5	Notices	19
	5.1 Third-party trademarks	19
	5.2 Third-party licenses	19
	5.3 Warranty Conditions	19
	5.4 Technical support Flow Computers and Gas analyzers	20
	5.5 Spare parts and repairs	20
	5.6 How to report a security vulnerability	20
	5.7 How to give feedback to user documentation	21
	5.8 Knowledge base articles on Honeywell Support Portal	21
	5.9 enCore operating instructions	21
	5.9.1 Download latest manuals on Docuthek	22
6	Index	24

### **1** About this manual

The manual for the enCore device series has a modular design. For an overview of the enCore/enSuite concept and the structure of the manual for your device type, please refer to section  $\Rightarrow 5.9$  enCore operating instructions (p. 21).

The present volume describes the basic functionality and operation of the Notification AFB.

P	The Notification AFB in the enCore device deries Please note that not every AFB is available for every
	device type of the enCore device series. Which functions a device supports is described in detail in the online help.
	Even if the AFB is supported by your device type, it is not always included in the delivery state. If this is the case with your device, then first add the AFB in enSuite with the action <b>Software configuration</b> and transfer the additional software to the device.
	In addition, some AFBs are subject to a charge. Please contact our technical support if you need assistance. ( ⇔ 5.4 Technical support Flow Computers and Gas analyzers, p. 20)

The meaning of the individual parameters is documented in detail in the online help of enSuite, which is why the parameterization in this document is only described as an example. The examples used may be slightly different for your particular device. Unless otherwise mentioned, the instructions refer to the expert mode.



#### Online help

In enSuite, you can call the general help via the menu item **Help – ③ Show online help**. Open the context-sensitive help directly from the desired branch in the parameterization window with [F1]. This part of documentation is intended for specialist personnel who are responsible for the service activities of the following tasks after the successful assembly of the device and installation of the current enSuite version on PC:

- adaptation of device parameterization to the measuring task
- test of all data points and commissioning
- other service activities

The illustrations in these instructions serve to depict the facts that are being explained, and therefore deviate depending on the configuration of your device and enSuite.

### 2 Functional description

In enCore devices, all important information of the device is available at all times, in particular unexpected events like malfunctions. The purpose of the Notification AFB is to immediately inform you by email about critical events related to the enCore device. In this way, you are always informed about the current state of the enCore device and you can take action at an early stage in the event of a malfunction. An email can be sent to various recipients.

The AFB operates as an email client and supports the Simple Mail *Transfer Protocol* (SMTP). It sends notifications via emails to an SMTP server (it is not possible to receive emails). The SMTP server can send outgoing emails within the network in which the enCore device is active. The network administrator of this network determines which additional permissions these emails will have, e.g., forwarding onto the Internet.

The AFB lets you manage up to four SMTP servers and enables up to four notification rules for each SMTP server.

A notification rule consists of:

- a recipient list with a maximum of eight
- between one and four application sources that trigger sending an email. In addition, you specify the priority level during parameterization, where an application source generates an email. The AFB currently supports the Error List as application source.

In most applications, an SMTP server with a notification rule is sufficient. For this reason, enSuite already creates a basic empty structure for para-meterizing an SMTP server with a notification rule as soon as you add new Notification AFB in enSuite. The basic structure is displayed in red writing (invalid parameterization).

🖃 📴 FC1	Parameters			
🗉 🔯 Basic System	Notification [03-01] using 7		7% of resources	
표 🔚 Stream 1	Name	Value	Unit	Rights
t General	▼ General			
	Code checksum	<automatic></automatic>		
I Notification	Origin identifier			
SMTP server 1	Active	1		
E Bisplays	Deactivate	Þ Unassigned	la la	

Fig. 2-1: Notifications – empty structure

This parameterization is only valid if you store the connection data for SMTP server 1 and define the notification rule.

### 2.1 Enable notifications

Configure general settings in enSuite

- Go to the 🖃 Notification folder.
- $\checkmark$  Here you will find the general parameters for the AFB.
- Assign a short and meaningful identifier to this AFB.
- This identifier is used in the subject line of each email together with the system time of the enCore device: Subject: <Origin identifier> <System time>
- $\checkmark$  The AFB is activated by default.
- (Optional) To prevent an undesirable flood of emails while commissioning a device, switch off the AFB by deactivating the Active checkbox.



Only activate AFB during commissioning

We recommend disabling the AFB during commissioning until activation makes sense in order to avoid a possible flood of emails.

Optionally, you can specifically disable the AFB when an event message arrives, and when the message ends, sending messages is enabled again.

A Open the security switch or A Maintenance mode

Further parameterization takes place in 2 steps:

- ⇒ 2.2 Parameterizing the connection settings of an SMTP server (p. 9)
- ⇒ 2.3 Define the notification rule with a recipient list and message (p. 11)

# 2.2 Parameterizing the connection settings of an SMTP server

#### Parameterizing connection settings in enSuite

Save the connection settings of the SMTP server:

- ► To parameterize the first SMTP server, open the branch <Device> ■ Notifications – SMTP server 1.
- In the Servername/IP parameter, specify the host name or the IP address of the SMTP server:
  - < s m t p . y o u r s e r v e r . c o m >
- In the Securitydrop-down list, select the encryption technology to be used to prevent the unwanted reading of emails during transmission.

Please note that recipients (SMTP servers) must be able to "understand" the same encryption technology.

SSL/TLS

by default via port 465/TCP

STARTTLS

by default via port 587/TCP

- keine (default) setting for unencrypted SMTP by default via port 587/TCP
- ▶ If this outgoing mail server is not used for SMTP associated ports (⇔ parameter Security) enter the Alternative port number.
- ► If the SMTP server requires authentication, enter the User name and **Password** for SMTP authentication.
- For the Sender parameter, set the email address that the SMTP server will use to send email notifications:
  <name > @ < domain of the SMTP server >

To avoid an SMTP server overload, ...

... in the Overload limit parameter, define the maximum number of emails the AFB is allowed to send to the SMTP server within 10 seconds. The default setting is 100.

- The AFB monitors the parameterized upper limit. Behavior in the event of an error:
  - The message /> Overload exceeded is displayed.
  - The AFB informs the recipient list about the error by means of an email: The subject line is:
     <Origin identifier> <System time> LOST NOTIFICATIONS
  - As long as the parameterized **Overload limit** is exceeded, the AFB does not generate any further notifications for this server.

To prevent too many emails from accumulating and blocking the queue, enCore devices are able to monitor the pending email limit.

- For the **Pending limit** parameter, enter the maximum amount of emails that can be queued in the enCore device which have not (yet) been sent to the SMTP server. The default setting is **50**.
- The AFB monitors the parameterized upper limit. Behavior in the event of an error:
  - The message /> Pending exceeded is displayed.
  - The AFB informs the recipient list about the error by means of an email: The subject line is: <Origin identifier> <System time> LOST NOTIFICATIONS
  - The AFB deletes all emails that are currently in the queue, except the last ones.
  - As long as the parameterized **Pending limit** is exceeded, the AFB does not generate any further notifications for this server.
- Only if the email was successfully sent, the notification A Pending limit exceeded ends and new emails will be generated for this server based on the parametrized application source.
- $\checkmark$  The connection settings for this SMTP server are parameterized.

To use one or more outgoing mail servers, ...

- switch to branch <Device> I Notifications Further SMTP servers.
- With the plus sign + in the right pane, add an SMTP server with a maximum of 4 outgoing mail servers.
- In the new SMTP server <x> folder, there is a basic empty structure created for a further notification rule.
- Switch to branch <Device> I Notifications Further SMTP servers – SMTP -server <x>.
- Enter the required data as described in this chapter.

## 2.3 Define the notification rule with a recipient list and message

A notification rule consists of at least one recipient and one application source.

#### Parameterizing the notification rule in enSuite

- Switch to branch <Device> Notifications <Servername/IP> -Notification <x>.
- Assign a **Name** to this notification rule.

To parameterize the first recipient for this rule, ...

- … choose from the **Recipient type** drop-down list how this recipient will be addressed:
  - To as the main addressee
  - **CC** (Carbon Copy) for informational purposes, visible for all other recipients
  - BCC (Blind Carbon Copy) blind copy for informational purposes, invisible for all other recipients
- Save the email address of the recipient, e.g.,:
  < firstname.lastname@company.com>

To set the first application source for this rule, ...

- ... from the drop-down list, select the Source that provides the information. The AFB currently supports the alarms and warnings of the Error list.
- Set the Priority level by activating the desired Alarm, Warning and/or Hint checkboxes.
- As soon as new information with the specified priority level is available for the parameterized application source, the AFB generates a new message and sends it to the stored recipient list by email. The subject line is:

```
<Origin identifier> <System time> <New entry
text> <Time> <Alarm | Warning>
```

If necessary, you can define further recipients and application sources for this notification rule.

As an example for application sources, the procedure is described below:

To use one or more notification services, ...

- ... switch to branch <Device> I Notification <Servername/IP> – Further notifications.
- Add a notification service with the plus sign + in the right pane maximum 8 notifications are possible.
- ✓ In the new Notification <x> folder, a basic empty structure is created for a further notification service.
- Switch to branch <Device> I Notification <Servername/IP>

```
- Further notifications - Notification <x>.
```

Enter the required recipient list and application source(s) as described.

### **3** Display and operation

### 3.1 Displays at a glance

The following figure shows the hierarchical structure and the navigation through the displays of the Notification AFB:



Fig. 3-1: Display – hierarchical structure

	Display and Navigation with enCore Devices
Ģ	The general layout of displays for enCore devices and the basic navigation options are documented in detail in .
	Generally, a distinction is made between hyperlinks and actions when operating enCore devices – both are shown with <u>blue</u> underline on the device and in the manual. Navigate through the device displays using hyperlinks; carry out a specific functionality with actions.

### 3.2 Displays in detail

The initial display of the AFB is the **Main**.

Notification	Main	11:19:55
Active	Ye	es
smtp.gmail.com	more	
Notifications on		Ŷ

Fig. 3-2: Display Main – example

The **Main display** of the Notification AFB informs whether the AFB and the notification function are currently activated. With the appropriate user authorization, you can manually activate or deactivate the AFB in this display.

All parameterized SMTP servers are shown in a drop-down list. As soon as you have selected the desired entry, use **[more...]** to switch to the detailed display of the SMTP server.

Main display		
Active	<yes no=""  =""></yes>	
AFB status: indicates whether the AFB is a	ctivated ( <b>yes</b> ) or deactivated ( <b>no</b> ).	
As soon as a user with the <b>Change general system settings</b> right is logged on to the device, a drop-down list is displayed and you can change the AFB status directly in the control panel.		
<smtp drop-down="" list="" server=""></smtp>	[more]	
List with parameterized outgoing mail servers	SMTP server> (p. 15) switches to the detailed display	
Notifications	<on off=""  =""></on>	
The email function was deactivated ( <b>off</b> ) when the parameterized message (parameter <b>Deactivated</b> began or activated when this message ended ( <b>on</b> ).		

Notification AFB (e)

#### Table 3-1: Main display

#### <SMTP server> Overload exceeded <on | off> The warning **P** Overload exceeded is pending (on) or not pending (off). This warning signals that the parameterized number of emails ( parameter Pending limit) exceeded within the last 10 seconds. Pending exceeded <on | off> The warning **Pending exceeded** is pending (**on**) or not pending (**off**). This warning signals that the parameterized number of emails pending in the queue ( > parameter **Pending limit**) exceeded. <Number of emails> Sent notifications Number of emails sent since the last reboot of device Last connection <Timestamp> Timestamp of the last connection to the SMTP server [<current connection status>] following connection statuses are possible: Connecting The AFB is currently connecting to the SMTP server. Possible cause: Initialization phase after reboot or activation of the AFB Idle Currently there are no emails pending in the SMTP server. Possible cause: There are no events for the parametrized **priority level** of the **application** source(s). online Currently there is a connection to the SMTP server. • Authentication failure Logon to the outgoing mail server failed. Possible cause: Parameterized access data incorrect (parameter Username/Password) Unable to connect Possible causes: Network problem; parameterized SMTP connection settings incorrect Fatal connection error Possible cause: There was a fatal error while sending emails with SSL encryption. Warning! Emails will no longer be sent. Reboot the enCore device.

#### <SMTP server>

#### [<SMTP server error message>]

In case of an SMTP error, the error message reported by the SMTP server is displayed here (if necessary on several lines, the lines remain empty if the connection is error-free).

Table 3-2: Target display **<SMTP server>** 

### 4 Technical data

### 4.1 Nomenclature

Following symbols and names are used in the enCore FC and in enSuite for counters and values in the context of Notification AFB:

Symbol	Description
= 1	Notification AFB
<b>/</b> *	message of type "alarm"
/•	message of type "warning"
/to	message of type "hint"

### 5 Notices

### 5.1 Third-party trademarks

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The licenses, notices, restrictions and obligations, if any, may be found in the materials accompanying the product, in the documents or files accompanying such third party materials, in a file named Third\_ Party\_Licenses\_enCore.pdf at:

process.honeywell.com/us/en/site/elster-instromet/about-us

### 5.3 Warranty Conditions

You will find our current warranty conditions in the General Terms and Conditions, for example, on our website:

process.honeywell.com/us/en/site/elster-instromet/about-us

## 5.4 Technical support Flow Computers and Gas analyzers

Our support of Elster Gas is available for technical advice as well as repairs.

To find further information visit our support site of Elster Gas:

process.honeywell.com/us/en/site/elster-instromet/support

Use secure communication!

Use secure communication, such as email encryption, to send confidential data.

### 5.5 Spare parts and repairs

For spare parts and repairs please write an email to our service.

PMT-Reparatur@Honeywell.com

### 5.6 How to report a security vulnerability

A security vulnerability is defined as an error or weakness in the software that can be exploited to impair the operation or security of the parameterization or device software or to access sensitive data.

Honeywell investigates all reports of security vulnerabilities affecting Honeywell products and services. For details on Honeywell security policy, visit:

#### www.honeywell.com/us/en/product-security

To report a potential security vulnerability against any Honeywell product, please follow the instructions at:

www.honeywell.com/us/en/product-security#vulnerability-reporting To view information on current malware threats please visit:

www.honeywell.com/us/en/news

OR

Contact your local Honeywell Process Solutions Customer Contact Center (CCC) or our technical support of Elster Gas.

### 5.7 How to give feedback to user documentation

We are always interested in your comments, corrections or suggestions for improvement regarding the Elster Gas Flow Computers and Gasanalyzers documentation. Please send your feedback to our technical support of Elster Gas.

ElsterSupport@Honeywell.com

Use this email address to provide feedback, or to report errors and omissions in the documentation.

### 5.8 Knowledge base articles on Honeywell Support Portal

Elster Gas provides problem-solving approaches and answers to frequently asked questions, as well as tips and tricks in short articles for various product series in our technical knowledge base.

process.honeywell.com/us/en/services-andsupport/support-center/technical-support

The knowledge articles are constantly being expanded.

### 5.9 enCore operating instructions

Only the operating instructions for the individual device types are listed below. In each of these instructions you will find the complete list of other applicable manuals for the respective device type.

Notification AFB (e)

#### **Flow Computer**

- ZM1, BM1, MC1, FC1, DC1 "Operating Instructions" (order no.: NFC-OI-EN)
- ZM1, BM1, MC1, FC1, DC1 "Basic System with SFBs"

#### Gas analyzers

- EnCal 3000 proChain GC "Information for General Use" (order no.: 73024637)
- GasLab Q2 "Information for General Use" (order no.: 73023638)

#### **Q.Sonic Series 6**

- Q.Sonic-plus "Operation and Maintenance" (order no.: 73023467)
- Q.Sonic-max8 "Operation and Maintenance" (order no.: 73023477)

### 5.9.1 Download latest manuals on Docuthek

Elster Gas provides the user documentation such as manuals, certificates, data sheets, technical information for different device types (in different languages) on the Docuthek. The documents are regularly updated.

#### www.docuthek.com

Use the device type as search term, for example, enCore FC1

#### Check PDF after download

Use SHA-1 checksum information to verify the file integrity of a PDF after download with an appropriate tool.

The target value of the SHA-1 checksum for a PDF can be found on our Docuthek in the details in section **Remarks**, or – if you have downloaded the PDF from Honeywell website – in brackets next to the download link.



Which manuals are relevant for previous product releases?

Only the latest manuals are available on the Docuthek. If you are using an older software version, you can look up these manuals for each version in the software history on the Honeywell website. The software history is available as a PDF file for product releases since 2020 in the download area of the respective device type. process.honeywell.com/us/en/site/

elster-instromet/support#software-downloads

### 6 Index

#### Α

About this manual 5 Application source parameterize 12

#### D

Display and operation 13 Displays at a glance 13 Displays in detail 14

#### Μ

Main display 14

#### Ν

Navigation (enCore device) 13 Nomenclature 17 Notification rule 11 parameterizing 11

#### 0

Online help 5 Overload exceeded 10 Overload limit 9

#### Ρ

Pending exceeded 10 Pending limit 10 exceeded 10 Pending limit exceeded ends 10 Priority level 12 Alarm 12 Hint 12 Warning 12

#### R

Recipient parameterize 11 Recipient type 11

#### Т

Technical data 17