

**EK280 firmware release 2.50**

Volume conversion device and data logger product management

06.09.2017

**Volume conversion device EK280 firmware release 2.50  
Introduction of new modem modules for the EK280 and FE260  
from 1<sup>st</sup> October 2017**

Dear Customer,

From 1<sup>st</sup> October, we will be supplying the volume conversion device EK280 with a new firmware version. At the same time, we will be launching new modem modules for the EK280 and FE260.

The forthcoming changes are described below.

The information is divided into the following sections.

1. Volume conversion device EK280 – firmware release 2.50
2. Volume conversion device EK280  
Internal iCM280 2G (GSM/GPRS) and iCM280 3G (UMTS) modem
3. Function extension unit FE260  
2G modem (GSM/GPRS) and 3G modem (UMTS)
4. Data communication as from firmware release 2.50
5. PUSH and PULL possible as from firmware version 2.50
6. Data retrieval using CSD in the 2G network (GPRS/GSM)
7. NO data retrieval using CSD in “German” 3G networks (UMTS)
8. New antennas for improved reception

This information sheet also serves as a notification of change. All further information relating to the changes and new functions are set out in the relevant documents which are either supplied with the devices or available for downloading from the Internet from October 2017 onwards.

If you have any other questions, please do not hesitate to contact our helpdesk staff on +49 (0)6134 605-123 or [ElsterSupport@honeywell.com](mailto:ElsterSupport@honeywell.com).

Mainz-Kastel, 6<sup>th</sup> September 2017

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## EK280 firmware release 2.50

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### 1. Volume conversion device EK280 – firmware 2.50

<b>EK280 firmware 2.50</b>	→ Checksum 51353 (address 02:191)
MID approval	→ NMI T10339, revision 14
ATEX Approval	→ LCIE ATEX 3027X Issue 05 (for Zone 0/1)
(Manufacturer Declaration)	→ LCIE 12 ATEX 1015 X / 03 (for Zone 2)
Parameterization software	→ enSuite from version 3.9
Valid	→ Product deliveries from 1 <sup>st</sup> October 2017
Serial number	→ From 4503800*

*\* Please note that devices with lower serial numbers may also have firmware version 2.50 because it is also possible to complete a firmware update for devices already in the field.*

#### Supporting documents:

- Operating manual: Order No.: 730209, version: c
- Application manual: Version 2017-1, software version 2.50 ff.
- FTP applications: Version 2017-1, software version 2.50 ff

*From Oktober 2017 on all documents are available for downloading from our website [www.ek280.com](http://www.ek280.com).*

#### New functions / Improvements / Functional changes (version 2.50)

##### New functions

- **Prepared for the use of new communication modules**  
**iCM280 2G (GPRS)**  
**iCM280 3G (UMTS)**
- **PUSH and PULL possible**  
PUSH and PULL modes are possible with the new communication modules without the application having to be selected in advance
- **Downwards compatibility, see chapter 4**  
(Data communication from firmware version 2.50 on)

##### Improvements

- **ComFTP modem application replaced**  
ComFTP modem application is now implemented by the FTP PUSH function in the EK280
- **NTP system-time synchronization**  
EK280 supports the function for time synchronization with an NTP server
- **Admin lock status in the status line**  
The status of the admin lock is indicated in the status line by an additional symbol "a"

#### Note

The listed extensions and improvements are not metrologically relevant to devices already in use and therefore have no effect on the current approval of the device.  
This means that no software update is required for field devices.

**Customers generally have no right to a free firmware update by Honeywell/Elster.**

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### 2. Volume conversion device EK280 Internal iCM280 2G (GSM/GPRS) and iCM280 3G (UMTS) modem

From firmware version 2.50, the volume conversion device EK280 is supplied with new modem modules.

Devices delivered up to 30 September 2017 are fitted with a

- 2G modem (modem module ECM-GW120)

Devices delivered as from 1 October 2017 are fitted with a

- 2G modem (modem module ECM-2G-UG350)
- or a
- 3G modem (modem module ECM-3G-UU270)

The differences are described below.

Up to 30 <sup>th</sup> September 2017	As from 1 <sup>st</sup> October 2017				
2G modem with modem module ECM-GW120:	iCM280 2G with modem module ECM-2G-UG350 iCM280 3G with modem module ECM-3G-UU270:				
					
	Modem modules ECM-2G-UG350 and ECM-3G-UU270 can be distinguished by their type label:				
	<table> <tr> <th>ECM-2G-UG350</th><th>ECM-3G-UU270</th></tr> <tr> <td> <b>ECM-2G-UG350</b>   II 1 G Ex ia IIB                      LCIE 16 ATEX 3047 U                      IECEX LCIE 16.0037 U                        01234567890123456789                 </td><td> <b>ECM-3G-UU270</b>   II 1 G Ex ia IIB                      LCIE 16 ATEX 3047 U                      IECEX LCIE 16.0037 U                        01234567890123456789                 </td></tr> </table>	ECM-2G-UG350	ECM-3G-UU270	<b>ECM-2G-UG350</b>  II 1 G Ex ia IIB LCIE 16 ATEX 3047 U IECEX LCIE 16.0037 U  01234567890123456789	<b>ECM-3G-UU270</b>  II 1 G Ex ia IIB LCIE 16 ATEX 3047 U IECEX LCIE 16.0037 U  01234567890123456789
ECM-2G-UG350	ECM-3G-UU270				
<b>ECM-2G-UG350</b>  II 1 G Ex ia IIB LCIE 16 ATEX 3047 U IECEX LCIE 16.0037 U  01234567890123456789	<b>ECM-3G-UU270</b>  II 1 G Ex ia IIB LCIE 16 ATEX 3047 U IECEX LCIE 16.0037 U  01234567890123456789				

#### IMPORTANT:

The 2G modem modules delivered up to 30 September 2017 are fully IP-compatible. The main difference is that as from firmware version 2.50, the PUSH and PULL applications are implemented by the volume conversion device and no longer by the modem.

**There is no need nor any entitlement for Elster/Honeywell to replace a modem free of charge.**

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### 3. Function extension unit FE260 2G modem (GSM/GPRS) and 3G modem (UMTS)

The function extension unit FE260 will also be supplied with the new modem modules as from 1<sup>st</sup> October 2017 which can only be used with the volume conversion device EK280 with firmware version 2.50 or higher.

Devices delivered **up to 30<sup>th</sup> September 2017** are fitted with a

- 2G modem (modem module ECM-GW120)

Devices delivered **as from 1<sup>st</sup> October 2017** are fitted with a

- 2G modem (modem module ECM-2G-UG350)

or a

- 3G modem (modem module ECM-3G-UU270)

The differences are described below.

Up to 30 <sup>th</sup> September 2017	As from 1 <sup>st</sup> October 2017	
2G modem with modem module ECM-GW120:	2G with modem module ECM-2G-UG350 3G with modem module ECM-3G-UU270:	
		
	Modem modules ECM-2G-UG350 and ECM-3G-UU270 can be distinguished by their type label:	
GW120 Ex-Z2	ECM-2G-UG350	ECM-3G-UU270
		

#### IMPORTANT:

FE260 devices supplied as from 1<sup>st</sup> October 2017 with the new modems ...

... **will NO LONGER work with the EK260!**

... will only work with the EK280 with firmware version 2.50 or higher!

If the **EK280 has an older version**, either ...

... the old modem module (ECM-GW120) may be used → while stocks last!

(# 73020642 TCPServ or #73020093 ComFTP)

... the firmware may be updated to at least version 2.50 → this update attracts a charge!

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### 4. Data communication as from firmware release 2.50

As from firmware version 2.50, the TCPserv (PULL principle) and FTP (PUSH principle) functions will no longer be provided by a modem application (ComTCPserv, ComFTP) but by the EK280 itself. In functional terms, there are no restrictions although in some cases, the application may have to be replaced for the modems used.

Older modules or applications such as ISDN and CL will no longer be supported since the required network infrastructure is no longer available as a result of the change to ALL-IP. Furthermore, the industrial modem EM260 will no longer be supported as from software version 2.50.

The table below provides an overview. Further detailed information is available in section 8 of the application manual. Data transfer ([www.ek280.com](http://www.ek280.com)).

Com type	Communication	Application	Mode	Possible
Internal com module	GSM/GPRS (ECM-GW120) *1	TCPserv (WipSoft 7.47)	GSM / CSD	yes
			GPRS / TCPserv (PULL)	yes
			GPRS / FTP (PUSH)	yes
		ComFTP 2.02	GPRS / FTP (PUSH)	no *1
		ComTSC 3.41	GPRS / TAINY Switching Center	no
	iCM280 2G (GPRS) iCM280 3G (UMTS) (ublox) <b>NEW</b>	GSM / GPRS / UMTS no modem application	GSM / CSD	yes
			GPRS or UMTS / TCPserv (PULL)	yes
			GPRS or UMTS / FTP (PUSH)	yes
	iCE280-Ethernet PoE *5 (Ethernet AK Nord) <b>NEW</b>	Ethernet	Ethernet / TCP Serv (PULL)	yes
			Ethernet / FTP (PUSH)	yes
Terminal interface	RS-232 / 485 / 422	Direct connection to PC *4	RS-232 / 485 / 422	yes
		External analogue modem *4	RS-232 (DM130)	yes
		External MTL-5051	RS-232 (3-wire)	yes
		External modem *3 *4	RS-232 / 485 / 422	yes
FE260	M2106B 6.41 *2	All		no
	M2106B 6.55 *2	All		no
	M2106B V6.57e M2106+ V6.57e	ComTCPserv V1.10	GSM-CSD	yes
			GPRS-TCPserv (PULL)	yes
			SMS	yes
		All others *2		no
	GSM/GPRS (ECM-GW120) *1	TCPserv (WipSoft 7.47)	GSM / CSD	yes
			GPRS / TCPserv (PULL)	yes
			GPRS / FTP (PUSH)	yes
		ComTCPserv V2.04	GSM-CSD	yes
			GPRS-TCPserv (PULL)	yes
			SMS	yes
		ComFTP V2.02	All	no
		ComTSC V3.41	GPRS / TAINY Switching Center	no
		GSM / GPRS / UMTS without modem application	GSM / CSD	yes
			GPRS or UMTS / TCPserv (PULL)	yes
			GPRS or UMTS / FTP (PUSH)	yes
	Ethernet (insys)	Ethernet	Ethernet / TCP Serv (PULL)	yes
	Analogue modem		PSTN	yes
	ISDN modem			no
	CL module		Current loop interface	no
	RS-232 / 422	Direct connection to PC		yes
		External modem *3		yes

\*1 If a GSM / GPRS modem (ECM-GW120) is used in the EK280 or in the FE260, the application may need to be changed to TCPserv (WipSoft 7.47 is the internal identification on the modem)

\*2 If the FE260 is to be used in conjunction with the EK280 from V2.50, the modem must be replaced with the new version 2G (GPRS) or 3G (UMTS) - internal marking ublox

\*3 Function with external modems is not generally guaranteed, possibly testing by Elster / Honeywell necessary

\*4 Only in the EK280 version for use in EX Zone 2

\*5 The Ethernet module iCE280-Ethernet PoE is not released yet and NOT available with Version 2.50



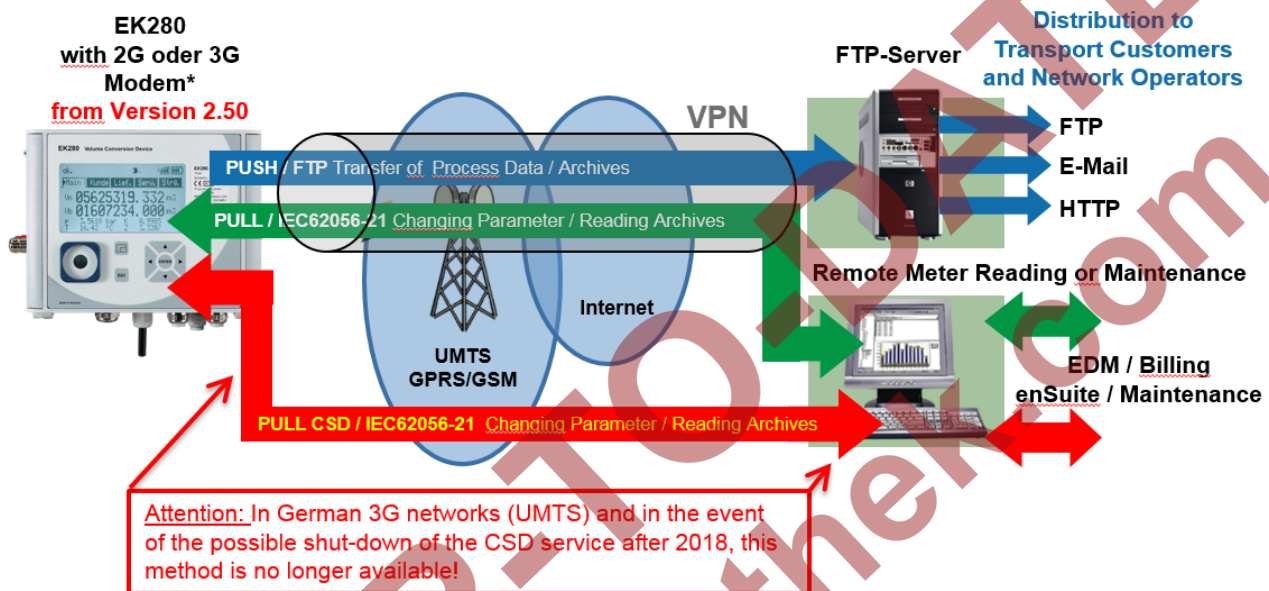
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### 5. PUSH and PULL possible from firmware version 2.50

Together with the new modems iCM280 2G (GSM/GPRS) and iCM280 3G (UMTS) and the new firmware version 2.50, the volume conversion device EK280 supports the PUSH and PULL applications, without the application having to be selected before placing the purchase order.



\* also in conjunction with function extension unit FE260

Please note that both applications can be operated in "a private network" (VPN). This means that both receivers or parties which receive and retrieve the data must be connected to the same VPN.

### 6. Data retrieval using CSD in the 2G network (GPRS/GSM)

If the network operator continues to support GSM/CSD with its network infrastructure and the SIM card (contract) is designed for this, access using a dial-up connection will also continue to work.

This type of data transfer will not necessarily be guaranteed in the future. If you are still reliant on this method of transfer, please contact your network operator.

Please also note in this respect that the modems used at the control centre may not continue to work reliably after 2018.

### 7. NO data retrieval using CSD in "German" 3G networks (UMTS)

The CSD service is not supported by German cellular network operators in the 3G network UMTS.

Please also note that the 3G network technology (UMTS and HSPA) will only continue to be available in the cellular network run by Telekom (subject to an extension) until 31 December 2020.

**If you are still reliant on the CSD service, you should use either a 2G modem or configure your existing 3G modem so that it only registers in the 2G network (GPRS) → see application manual.**



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### 8. New antennas for improved reception

At the same time as the launch of the new modems iCM280 2G (GSM/GPRS) and iCM280 3G (UMTS), we will also be supplying new antennas. The housing antennas are perfectly tailored to the wavelength and frequency ranges for 2G and 3G networks. The rod antenna (for remote installation) is also suitable for the 4G network. While the housing antenna is identical in design, the appearance of the rod antenna will change slightly.

For the old modem modules	For the modem modules as from 1 <sup>st</sup> October 2017
GSM antenna LIS200 SMA (2G only)	2G/3G/4G rod antenna, SMA
	
Dimensions: Diameter: approx. 16.2 mm Length: approx. 215.0 mm	Dimensions: Diameter: approx. 25.7 mm Length: approx. 193.0 mm
Same bracket (borehole 2 x 6 mm; dimensions approx. 15 x 8 cm; A/F 17)	

#### New order numbers

For the old modem modules	
Number	Designation
4407108	Antenna FTA35011-SM-ST Targan straight S
4407110	Antenna FTA35011smst TarganRiStraight 90°
73021676	GSM antenna LIS200 SMA, 2.5 m cable
73019581	GSM antenna LIS200 SMA, 5 m cable
73019582	GSM antenna LIS200 SMA, 10 m cable

For the modem modules as from 1 <sup>st</sup> October 2017	
Number	Designation
04407113	2G/3G stub antenna, SMA(m), straight
04407114	2G/3G stub antenna, SMA(m), 90° angled
04407115	2G/3G/4G rod antenna, SMA(m), 3 m cable
04407116	2G/3G/4G rod antenna, SMA(m), 5 m cable
04407117	2G/3G/4G rod antenna, SMA(m), 10 m cable

#### IMPORTANT:

**We reserve the right to continue to supply 2G antennas with the old modem modules while stocks last.**