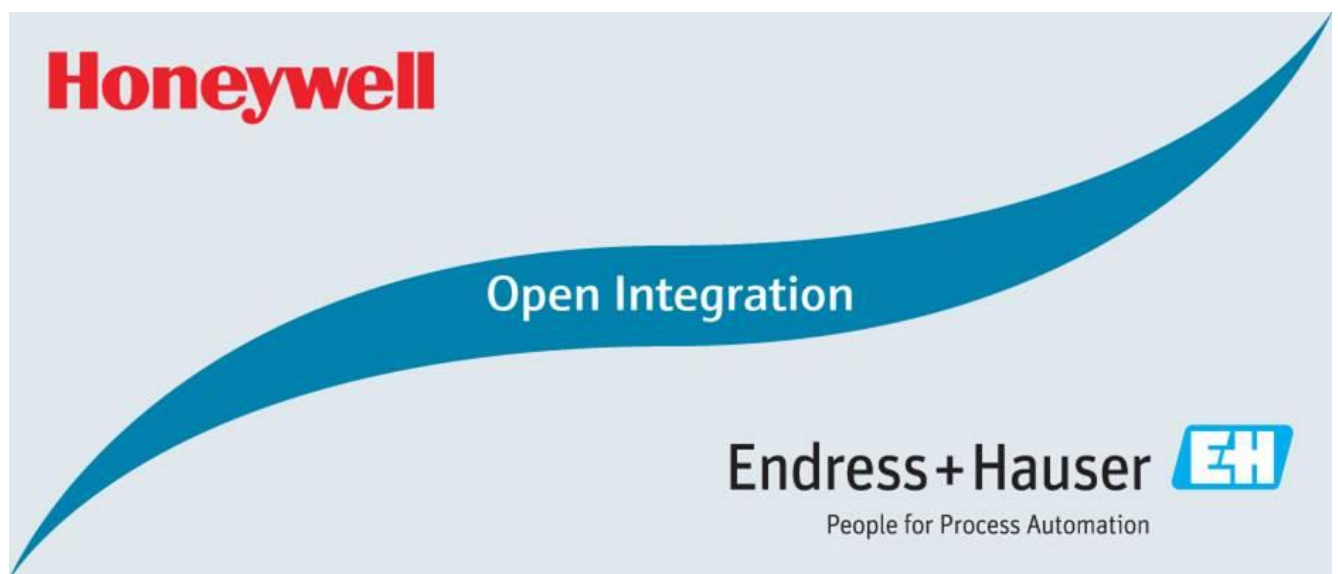


## List of Tested Devices and Versions HON03

Honeywell ControlEdge™ Unit Operations Controller and  
EtherNet/IP plus HART for Life Science



Supported by:

**FESTO**

**TURCK**



Table of Contents

**1 Document Information..... 4**

1.1 Purpose and Scope ..... 4

1.2 Document History ..... 4

1.3 Related Documents ..... 4

**2 Process Control System ..... 5**

2.1 Reference Software ..... 5

2.2 Reference Hardware ..... 5

**3 Plant Asset Management System..... 5**

3.1 Reference Software ..... 5

**4 Field Network Infrastructure..... 6**

4.1 Reference Software ..... 6

4.2 Reference Hardware ..... 6

4.2.1 EtherNet/IP I/O Network ..... 6

4.2.2 HART I/O ..... 7

**5 Field Devices..... 8**

5.1 EtherNet/IP ..... 8

5.2 HART ..... 9

## 1 Document Information

### 1.1 Purpose and Scope

This document lists all relevant components and devices with versions as used for testing of the Reference Topology HON03. All content of this document is jointly developed, reviewed and approved by Honeywell and Endress+Hauser as a common deliverable of Open Integration.

### 1.2 Document History

This is version 1.00.00 of this document. Version history:

Version	Released	Description
1.00.00	2020-11	Initial version


### 1.3 Related Documents

Please refer to related documents as listed below:


Document	Description
SD02648S/04/EN/1.20	Reference Topology HON03
SD02649S/04/EN/1.20	Integration Tutorial HON03
SD02650S/04/EN/1.20	Integration Test Summary HON03

## 2 Process Control System

### 2.1 Reference Software



<b>Honeywell</b>	<b>Detail</b>	<b>Description</b>
Configuration Studio 	Function	Configuration and commissioning of EPKS
	Order code	n.a.
	SW version	EPKS R511.2
	Operating system	Windows Server 2016 Standard (64 bit)
	Other relevant information	

### 2.2 Reference Hardware

<b>Honeywell</b>	<b>Detail</b>	<b>Description</b>
UOC 	Function	ControlEdge™ Unit Operations Controller
	Order name, code	900CP1 Control Processor
	Serial No.	152187360
	FW version	EXP511.1-42.257
	CommDTM	n.a.
	Other relevant information	


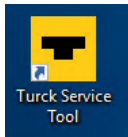
## 3 Plant Asset Management System


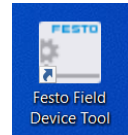
### 3.1 Reference Software

<b>Endress+Hauser </b>	<b>Detail</b>	<b>Description</b>
FieldCare 	Function	Configuration, commissioning and condition monitoring of intelligent field devices.
	Order code	SFE500-NEGZ101
	SW version	V2.14.00
	DTM library	V2.47.00
	Operating system	Windows 10 Professional (64 bit)

## 4 Field Network Infrastructure

### 4.1 Reference Software

		Detail	Description
Turck Service Tool 	Function		Device Tool for Service and Configuration
	Order code		-
	SW version		V3.2.2
	Operating system		Windows 10 Professional (64 bit)



		Detail	Description
Festo Field Device Tool 	Function		Device Tool for Service and Commissioning
	Order code		-
	SW version		V2.8.3.57008
	Operating system		Windows 10 Professional (64 bit)

### 4.2 Reference Hardware


#### 4.2.1 EtherNet/IP I/O Network

The EtherNet/IP I/O Network is mandatory for this reference topology, with relevant impact to integration tests. It may be built in a Star, Device Level Ring or Linear Bus Topology, as well as any combination of those. Honeywell and Endress+Hauser recommend using the components as listed below:

Reference hardware:

		Detail	Description
ETAP 	Function		EtherNet/IP Tap with 3 copper ports. Enables single port device to connect to a device level ring network.
	Order name, code		1783-ETAP
	FW version		V2.002
	Other relevant information		



	Detail	Description
<b>Stratix 5400</b> 	Function	Managed Industrial Ethernet Switch with Static and InterVLAN Routing.
	Order name, code	1783-HMS16TG4CGN
	FW version	Version 15.2(7) EA
	Other relevant information	




## 4.2.2 HART I/O

HART I/O is necessary to connect complementary HART devices, as required if EtherNet/IP options are not available or not reasonable to be used. This topology considers two alternative HART I/O options provided by TURCK.

### 4.2.2.1 Remote IO Excom




Reference hardware:




	Detail	Description
<b>GEN-N</b> 	Function	Ethernet Gateway
	Order name, code	100000129
	FW version	V1.2.32.5
	CommDTM	Excom GEN-N V1.0.0 (2012-03-28)
	Other relevant information	BL Service Ethernet V1.0.0 (2007-06-12), DTM for excom® Remote I/O system Package 1.21.0005
<b>AIH401-N</b> 	Function	HART Analog Input Module, 4-Channel, 2 or 4-wire Transmitters
	Order name, code	6884269
	FW version	V1.1a
	CommDTM	AIH401-N V1.0.42 (2018-10-30)
	Other relevant information	DTM for excom® Remote I/O system Package 1.21.0005
<b>AOH401-N</b> 	Function	HART Analog Output Module, 4-Channel
	Order name, code	6884270
	FW version	V1.0a
	CommDTM	AOH401-N V1.0.37 (2018-10-30)
	Other relevant information	DTM for excom® Remote I/O system Package 1.21.0005

## 5 Field Devices





### 5.1 EtherNet/IP





Endress+Hauser  <small>People for Process Automation</small>		Detail	Description	Device Type
<b>Promag 300/500</b> 	Function		Electromagnetic Flow Transmitter	0x103C
	Order Code		5H5B02-AAINAAAAGABERFDAS0AA1ABEB	
	Serial No.		MB11C719000	
	FW version		01.00.03	
	EDS		EH_EIP_FL_Promag300500_0x103C_0x01	
	DTM		Promag300 500 / 5x3x 5x5x / EIP / FW 1.00.zz / Dev.Rev.01	
			V1.10.0.59 / 2017-12-01 / DTM Library 2.47.01	
	Other relevant information		Schneider Electric EtherNet/IP Comm Adapter V1.5.1 (2016-01-25) must be used as CommDTM	
<b>Promass 300/500</b> 	Function		Coriolis Flow Transmitter	0x103B
	Order Code		8E3B08-AAINAAAGARSAD2SHA1ABEB	
	Serial No.		MB09E602000	
	FW version		01.00.03	
	EDS		EH_EIP_FL_Promass300500_0x103B_0x01_EDS	
	DTM		Promass300 500 / 8x3x 8x5x / EIP / FW 1.00.zz / Dev.Rev.01	
			V1.10.0.94 / 2017-12-01 / DTM Library 2.47.01	
	Other relevant information		Schneider Electric EtherNet/IP Comm Adapter V1.5.1 (2016-01-25) must be used as CommDTM	





<b>FESTO</b>		Detail	Description	Device Type
<b>CPX-FB36</b> 	Function		Bus Node	0x00C
	Order Code		1912451	
	Serial No.		1F426BF5	
	FW version		1.13.0-fb360	
	EDS		CPX-FB36-EDS-20180410	
	DTM		No DTM available	



## 5.2 HART

Endress+Hauser  People for Process Automation		Detail	Description	Device Type
<div>Cerabar M</div> 	Function	Absolute and Gauge Pressure Transmitter	0x0019	
	Order Code	PMP51-AA21JA1KGBGCJA1+AAPA78		
	Serial No.	KC01B601129		
	FW version	01.00.03		
	HART revision	6.0		
	DD	<a href="http://www.fieldcommgroup.org/hart.000011.0019.01.zip">www.fieldcommgroup.org/hart.000011.0019.01.zip</a>		
		<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> n.a.		
	DTM	Cerabar M 5x / PMx 5x / V1.00.xx		
V1.4.188.39 / 2017-03-31 / DTM Library 2.47.01				
<div>Cerabar S</div> 	Function	Absolute and Gauge Pressure Transmitter	0x1118 0x0018	
	Order Code	PMC71-ABA1H1GAAAA+PA72Z1		
	Serial No.	KC03140109C		
	FW version	02.30.06		
	HART revision	7.0		
	DD	<a href="http://www.fieldcommgroup.org/hart.000011.1118.zip">www.fieldcommgroup.org/hart.000011.1118.zip</a>		
		<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> EH_HA_PR_CerabarS_0x1118_0x17_0x02_FDM.zip		
	DTM	Cerabar S / PMx 7x / HART / FW2.30.zz / Dev.Rev.23		
V1.4.189.51 / 2018-02-19 / DTM Library 2.47.01				
<div>Deltabar S</div> 	Function	Differential Pressure Transmitter	0x1117 0x0017	
	Order Code	PMD75-ABA7D11BAAA+PB72Z1		
	Serial No.	KC02950109D		
	FW version	02.30.06		
	HART revision	7.0		
	DD	<a href="http://www.fieldcommgroup.org/hart.000011.1117.zip">www.fieldcommgroup.org/hart.000011.1117.zip</a>		
		<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> EH_HA_PR_DeltabarS_0x1117_0x16_0x04_FDM.zip		
	DTM	Deltabar S / xMD7x / HART / FW2.30.zz / Dev.Rev.23		
V1.4.189.51 / 2018-02-19 / DTM Library 2.47.01				

Endress+Hauser  <small>People for Process Automation</small>		Detail	Description	Device Type
<b>Deltapilot M</b> 	Function		Hydrostatic Level Transmitter	0x0023
	Order Code		Electronic board only	
	Serial No.		KC035001BC0	
	FW version		01.00.03	
	HART revision		6.0	
	DD		<a href="http://www.fieldcommgroup.org/hart.000011.1117.zip">www.fieldcommgroup.org/hart.000011.1117.zip</a>	
			<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> n.a.	
	DTM		Deltapilot M 5x / FMB 5x / V1.00.xx V1.4.189.39 / 2017-03-31 / DTM Library 2.47.01	
<b>Licquicap M</b> 	Function		Capacitance Level Transmitter	0x001D
	Order Code		FMI51-A1ARCJA3A1A1	
	Serial No.		KC004E010F0	
	FW version		01.03.02	
	HART revision		5.0	
	DD		<a href="http://www.fieldcommgroup.org/hart.000011.001d.03.zip">www.fieldcommgroup.org/hart.000011.001d.03.zip</a>	
			<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> n.a.	
	DTM		Liquicap M / FMI 5x / 1.03.xx V1.4.188.39 / 2017-03-31 / DTM Library 2.47.01	
<b>Levelflex</b> 	Function		Guided Radar Level Transmitter	0x1122 0x0022
	Order Code		FMP51-AAACCAAAA4GDJAAEH71Z1	
	Serial No.		N202500112C	
	FW version		01.03.01	
	HART revision		7.5	
	DD		<a href="http://www.fieldcommgroup.org/hart.000011.1122.zip">www.fieldcommgroup.org/hart.000011.1122.zip</a>	
			<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> EH_HA_LE_Levelflex_0x1122_0x04_0x01_FDM.zip	
	DTM		Levelflex / FMP5x / HART / FW 1.03.zz / Dev.Rev.4 V1.10.1.2369 / 2017-06-08 / DTM Library 2.47.01	

Endress+Hauser  People for Process Automation		Detail	Description	Device Type
<b>Micropilot</b>  	Function		Radar Level Transmitter	0x112B 0x002B
	Order Code		FMR62-AAACCAGEA5GDJAAEHZ1	
	Serial No.		N200AB01182	
	FW version		01.00.01	
	HART revision		7.5	
	DD		<a href="http://www.fieldcommgroup.org/hart.000011.1122.zip">www.fieldcommgroup.org/hart.000011.1122.zip</a>	
			<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> n.a.	
	DTM		Micropilot / FMR6x / HART / FW 1.00.zz / Dev.Rev.1 V1.10.0.807 / 2017-06-08 / DTM Library 2.47.01	
<b>iTHERM TrustSens</b>  	Function		Compact thermometer with self-calibration	0x11CF 0x00CF
	Order Code		TM371-1PC4/101	
	Serial No.		N3044004487	
	FW version		01.00.04	
	HART revision		7.6	
	DD		<a href="http://www.fieldcommgroup.org/hart.000011.112b.01.zip">www.fieldcommgroup.org/hart.000011.112b.01.zip</a>	
			<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> EH_HA_TE_TrustSens_0x11CF_0x01_0x01_FDM.zip	
	DTM		TrustSens / TM371-TM372 / HART / FW 1.00.zz / Dev.Rev.01 V1.11.301.4871 / 2018-10-10 / DTM Library 2.47.01	
<b>Liquiline M</b>  	Function		Liquid Analyzer Transmitter	0x11A0 0x00A0
	Order Code		CM42-MAA000EAE011	
	Serial No.		KC008605G00	
	FW version		02.04.00	
	HART revision		7.5	
	DD		<a href="http://www.fieldcommgroup.org/">www.fieldcommgroup.org/</a> n.a.	
			<a href="http://www.endress.com/downloads">www.endress.com/downloads</a> EH_HART_AN_Liquiline_M_0x11A0_0x01_0x01_FDM.zip	
	DTM		Liquiline pHORP / CM42 /HART / FW 2.04.zz / Dev.Rev.04 V2.4.0.22 / 2017-06-07 / DTM Library 2.47.01	

[www.endress.com/open-integration](http://www.endress.com/open-integration)

---