



SAFETY
NONSTOP

Endress+Hauser



People for Process Automation

List of Tested Devices and Versions HIMA01

Version 1.00.00

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HIMA Paul Hildebrandt GmbH HIMax and HART for
SIL applications in Chemical Industry





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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	6
3	Plant Asset Management System.....	7
3.1	Reference Software	7
4	Field Devices	8
4.1	HART devices	8



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 HIMA01. All content of this document is jointly developed, reviewed and approved by HIMA Paul Hildebrandt GmbH 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	2016-05	Initial version





1.3 Related Documents

Please refer to related documents as listed below:







Document	Description
SD01679S/04/EN/01.16	Reference Topology HIMA01
SD01680S/04/EN/01.16	Integration Tutorial HIMA01
SD01681S/04/EN/01.16	Integration Test Summary HIMA01

2 Process Control System

2.1 Reference Software

	Detail	Description
SILworX 	Function	Configuration and commissioning of system backbone, all I/O and control strategies for HIMax controllers.
	SW version	V7.18.0
	Operating system	Windows 7 Professional (32/64bits)
	Other relevant information	
ControlMaestro 	Function	Visualization software tool
	SW version	CM 2015 Update 3 Build 2
	Operating system	Windows 7 Professional (32/64bits)
	Other relevant information	
HIMax HART Package 89 5650007 	Function	HIMax HART Universal Application Interface
	SW version	(1016)
	Operating system	N.A
	Other relevant information	Software package to allow the usage of HART information in the SILworX application program

2.2 Reference Hardware


	Detail	Description
Systembus Modules 	Function	System Bus Module
	Order code	X-SB 01
	FW version	6.26
	Other relevant information	
CPU Modules 	Function	Processor module for large applications or applications with higher performance, 4x RJ-45
	Order code	X-CPU 01
	FW version	6.26
	CommDTM	HART IP Communication V1.1.0.6 / 2012.12.10
	Other relevant information	
Com Modules 	Function	Communication Module
	Order code	X-COM 01
	FW version	6.26
	CommDTM	X-COM-DTM V1.0.0.1 / 2012.11.29
	Other relevant information	
AI Modules 	Function	Interface module, 32 channels, SIL3
	Order code	X-AI 32 01
	FW version	6.6
	Other relevant information	
HART Modules 	Function	HART Interface module, 32 channels, SIL3
	Order code	XHART 32 01
	FW version	5.10
	CommDTM	X-HART-DTM V1.0.0.1 / 2012.11.29
	Other relevant information	



3 Plant Asset Management System




3.1 Reference Software

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	Detail	Description
FieldCare 	Function	Configuration, commissioning and condition monitoring of intelligent field devices.
	Order code	SFE500-NEGG101
	SW version	V2.09.01
	DTM library	V2.42.00
	Flow Verification DTM HART	V1.04.04
	Operating system	Windows 7 Professional (x64)

4 Field Devices

4.1 HART devices

	Detail	Description	HART ID
Cerabar S 	Function	Absolute and Gauge Pressure Transmitter	0x0018 0x1118
	Order Code	PMC71-ABA1H1GAAAA+PA72Z1	
	Serial No.	KC03140109C	
	FW version	02.20.04	
	HART revision	7	
	Safety Integrity Level	SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM	Cerabar S / PMx 7x / HART / FW2.20.zz / Dev.Rev.22 V1.4.184.499 / 2015.10.24 / DTM Library 2.42	
Omnigrad M 	Function	Temperature Transmitter	0x00CC 0x11CC
	Order Code	TR10-ABA1CAS1M2000+TZD	
	Serial No.	KC05CE14152	
	FW version	01.01.08	
	HART revision	7	
	Safety Integrity Level	SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM	iTEMP / TMT82 / HART / FW1.01.zz / Dev.Rev.2 V1.6.0.396 / 2015.05.26 / DTM Library 2.42	
Levelflex 	Function	Guided Radar Level Transmitter	0x0022
	Order Code	FMP51-AAACCAAAA4GDJ+AA74Z1	
	Serial No.	KC00C90112C	
	FW version	01.02.01	
	HART revision	6	
	Safety Integrity Level	SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM	Levelflex / FMP5x / HART / FW1.02.zz / Dev.Rev.3 V1.7.1.2040 / 2015.10.26 / DTM Library 2.42	

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Micropilot 	Function		Radar Level Transmitter	0x0028
	Order Code		FMR51-AAACCABAA5RVJ+AA75Z1	
	Serial No.		KC005F01134	
	FW version		01.01.00	
	HART revision		6	
	Safety Integrity Level		SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM		Micropilot / FMR5x / FW1.01.zz / Dev.Rev.2 V1.7.0.664 / 2015.10.26 / DTM Library 2.42	
Deltabar S 	Function		Differential Pressure Transmitter	0x0017 0x1117
	Order Code		PMD75-ABA7D11BAAA+PB72Z1	
	Serial No.		KC02950109D	
	FW version		02.20.04	
	HART revision		7	
	Safety Integrity Level		SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM		Deltabar S / xMD7x / HART / FW2.20.zz / Dev.Rev.22 V1.4.184.499 / 2015.10.24 / DTM Library 2.42	
Prowirl 200 	Function		Vortex Flow Transmitter	0x0038 0x1138
	Order Code		7F2B15-AAACCA1AASK+AA74Z1	
	Serial No.		KC104519000	
	FW version		01.02.03	
	HART revision		7	
	Safety Integrity Level		SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM		Prowirl 200 / 7x2B / HART / FW1.02.zz / Dev.Rev.3 V1.6.0.423 / 2015.05.26 / DTM Library 2.42	
Promass 80 	Function		Coriolis Flow Transmitter	0x0050
	Order Code		80F08-AD2SAAAAABAA	
	Serial No.		KC08B802000	
	FW version		03.01.02	
	HART revision		5	
	Safety Integrity Level		SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM		Promass / 80 / V3.01.0x V1.4.184.499 / 2015.10.23 / DTM Library 2.42	

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Deltapilot S 	Function		Hydrostatic Level Transmitter	0x001A 0x111A
	Order Code		FMB70-ABA1F121GCAA+PA72Z1	
	Serial No.		KC0095010AE	
	FW version		02.20.04	
	HART revision		7	
	Safety Integrity Level		SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM		Deltapilot S / FMB70 / HART / FW2.20.zz / Dev.Rev.22 V1.4.184.499 / 2015.10.24 / DTM Library 2.42	
Promass 83 	Function		Coriolis Flow Transmitter	0x0051 0x1151
	Order Code		83XXX-XXXXXXAAAQBA	
	Serial No.		KC08BE02000	
	FW version		03.07.00	
	HART revision		7	
	Safety Integrity Level		SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM		Promass / 83 / HART / FW3.07.zz / Dev.Rev.0A V1.4.184.499 / 2015.10.24 / DTM Library 2.42	
Promag 200 	Function		Electromagnetic Flow Transmitter	0x0048 0x1148
	Order Code		5P2B15-AAACCAEA1KGA+AAEB75Z1	
	Serial No.		KC103119000	
	FW version		01.01.03	
	HART revision		7	
	Safety Integrity Level		SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM		Promag 200 / 5x2B / HART / FW1.01.zz / Dev.Rev.2 V1.5.0.219 / 2015.03.28 / DTM Library 2.42	
Promass 200 	Function		Coriolis Flow Transmitter	0x0054 0x1154
	Order Code		8E2B08-AAACCAAAAAS1EB72Z1	
	Serial No.		KC08BA02000	
	FW version		01.04.01	
	HART revision		7	
	Safety Integrity Level		SIL2 (1oo2), SIL3(1oo2,2oo3)	
	DTM		Promass 200 / 8x2B / HART / FW1.04.zz / Dev.Rev.5 V1.5.0.1133 / 2015.04.28 / DTM Library 2.42	



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