

List of Tested Devices and Versions ME02

Mitsubishi Electric MELSEC System Q - Redundant PLC System
and HART over PROFIBUS for Power & Energy Industry

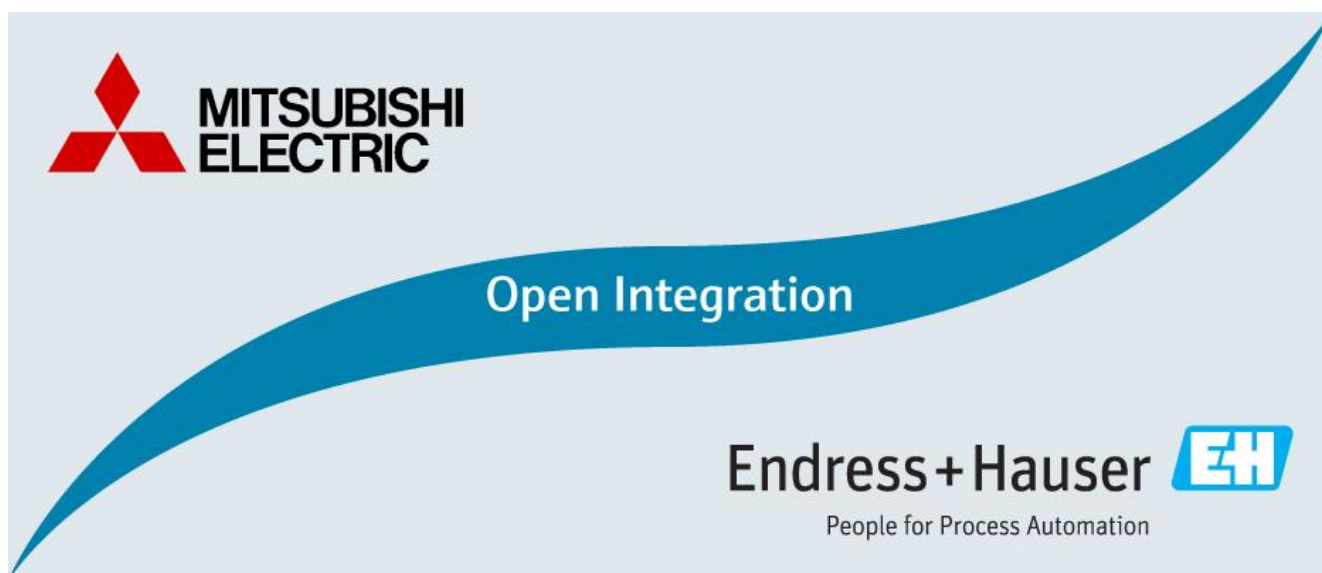


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1 Document Information

1.1 Purpose and Scope

This document lists all relevant components and devices with versions as used for testing of the Reference Topology ME02. All content of this document is jointly developed, reviewed and approved by Mitsubishi Electric 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	2016-12	Initial version



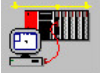
1.3 Related Documents

Please refer to related documents as listed below:



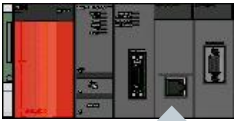

Document	Description
SD01765S/04/EN/01.16	Reference Topology ME02
SD01766S/04/EN/01.16	Integration Tutorial ME02
SD01767S/04/EN/01.16	Integration Test Summary ME02

2 Process Control System

2.1 Reference Software

 MITSUBISHI ELECTRIC	Detail	Description
GX Works 2 	Function	Configuration and commissioning of system backbone, all I/O and control strategies for MELSEC System Q controllers.
	Order code	234630
	SW version	V1.501X
	Operating system	Windows 7 Ultimate SP1 (x64)
	Other relevant information	Any newer version > V1.501X can be used as well
GX Configurator-DP 	Function	Configuration and commissioning of cyclic communication for MELSEC System Q PROFIBUS DPV1 master modules and connected PROFIBUS DP / PA devices.
	Order code	202073
	SW version	V7.10L
	Operating system	Windows 7 Ultimate SP1 (x64)
	Other relevant information	Any newer version > V7.10 can be used as well


2.2 Reference Hardware

 MITSUBISHI ELECTRIC	Detail	Description
MELSEC System Q CPU Module 	Function	CPU module for redundant MELSEC System Q control unit
	Order name, code	Q12PRHCPU, 157070
	FW version	D
	Comm DTM	MX CommDTM-PBDP Version 3.0
	Other relevant information	
Ethernet Module 	Function	Ethernet interface module
	Order name, code	QJ71E71-100, 138327
	FW version	D
	Other relevant information	
Profibus Master Module 	Function	PROFIBUS DPV1 interface module for MELSEC System Q control unit
	Order name, code	QJ71PB92V, 165374
	FW version	D
	Other relevant information	Multiple QJ71PB92V modules can be used in one System Q rack. Each PROFIBUS master module can handle a maximum of 125 slaves.

3 Plant Asset Management System


3.1 Reference Software

 Endress+Hauser 
 People for Process Automation

	Detail	Description
FieldCare 	Function	Configuration, commissioning and condition monitoring of intelligent field devices.
	Order code	SFE500-NEGG101
	SW version	2.10
	DTM library	V2.42.00
	Operating system	Windows 7 Ultimate SP1 (x64)





3.2 Reference Hardware

 Endress+Hauser 
 People for Process Automation

	Detail	Description
Fieldgate SFG500 	Function	Ethernet / PROFIBUS DP gateway as system independent access path for FieldCare.
	Order Code	SFG500 + SFM500-A1
	FW version	01.09.00
	Asset library	01.07.00
	Comm DTM	01.09.00

4 Field Network Infrastructure

4.1 Reference Hardware






PEPPERL+FUCHS		Detail	Description
<div>Bus Coupler</div> <div></div>	Function	Unicom Com Unit for PROFIBUS DP/DP-V1	
	Order Code	LB8109H0906	
	FW version	V9.06	
	Comm DTM	LB8109-LB-DPV1 UNICOM Interface V1.4 (2007-03-30)	
	GSD File	PFV61710.gsd	
	Other relevant information	Installed DTM Library: DTM Collection Remote IO/DTM Collection Remote IO V7.6.3	
<div>HART Input Module</div> <div></div>	Function	HART Transmitter Power Supply, 4-Channel, 2-wire Transmitters	
	Order Code	LB3106A	
	Comm DTM	LB 3106 HART Transmitter Power Supply (4ch, Ex(ii)) V1.3 (2010-03-30)	
<div>HART Input Module</div> <div></div>	Function	HART Transmitter Power Supply, Input Isolator,1-Channel, 2 or 3-wire Transmitters	
	Order Code	LB3102A2	
	Comm DTM	LB 3102 HART Analog Input/Transmitter Power Supply (1ch, Ex(ii)) V1.3 (2006-07-11)	
<div>HART Output Module</div> <div></div>	Function	HART Output Isolator, 4-Channel	
	Order Code	LB4106A	
	Comm DTM	LB 4106 HART Analog Output (4ch, Ex(ii)) V1.3 (2006-07-11)	
	Function	Power Supply 24V	




5 Field Devices


5.1 HART

 Endress+Hauser 
 People for Process Automation

	Detail	Description	HART ID
iTEMP 	Function	DIN rail Temperature Transmitter	0x00C9
	Order Code	TMT112-AAAAA	
	Serial No.	KC03F904347	
	FW version	1.1	
	HART revision	5	
	DTM	iTemp / TMT 122 / V1.1	
		V1.4.184.499 / 2015-10-22 / DTM Library 2.42	
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	
	DTM	Cerabar S / PMx 7x / HART / FW2.20.zz / Dev.Rev.22	
		V1.4.184.499 / 2015.10.24 / DTM Library 2.42	
iTEMP 	Function	Temperature Transmitter	0x00CC 0x11CC
	Order Code	TR10-ABA1CAS1M2000+TZD: 71292545: RFID	
	Serial No.	KC05CE14152	
	FW version	01.01.08	
	HART revision	7	
	DTM	iTEMP / TMT82 / HART / FW 1.01.zz / Dev.Rev2	
		V1.06.0.396 (2015-05-26)	
Cerabar M 	Function	Absolute and Gauge Pressure Transmitter	0x0019
	Order Code	PMP51-AA21JA1KGBGCJA1+AAPA78	
	Serial No.	KC01B601129	
	FW version	01.00.01	
	HART revision	6	
	DTM	Cerabar M 5x / PMx 5x / V1.00.xx	
		V1.4.184.499 / 2015-10-22 / DTM Library 2.42	

Endress+Hauser  People for Process Automation		Detail	Description	HART ID
<div>Deltabar S</div> 	Function	Differential Pressure Transmitter		0x0017 0x1117
	Order Code	PMD75-ABA7D11BAAA+PB72Z1		
	Serial No.	KC02950109D		
	FW version	02.20.04		
	HART revision	7		
	DTM	Deltabar S / xMD7x / HART / FW2.20.zz / Dev.Rev.22		
		V1.4.184.499 / 2015.10.24 / DTM Library 2.42		
<div>Promag 10</div> 	Function	Electromagnetic Flow Transmitter		0x0045
	Order Code	10L25-LEGA1AA0A5AA		
	Serial No.	KC100F19000		
	FW version	01.04.00		
	HART revision	5		
	DTM	Promag / 10 / V1.03.00		
		V1.4.184.499 / 2015-10-26/ DTM Library 2.42		
<div>Levelflex</div> 	Function	Guided Radar Level Transmitter		0x0022
	Order Code	FMP51-AAACCAAAA4GDJ+AA74Z1		
	Serial No.	KC00C90112C		
	FW version	01.02.01		
	HART revision	6		
	DTM	Levelflex / FMP5x / HART / FW1.02.zz / Dev.Rev.3		
		V1.7.1.2040 / 2015.10.26 / DTM Library 2.42		
<div>Micropilot</div> 	Function	Radar Level Transmitter		0x0028
	Order Code	FMR51-AAACCABAA5RVJ+AA75Z1		
	Serial No.	KC005F01134		
	FW version	01.01.00		
	HART revision	6		
	DTM	Micropilot / FMR5x / FW1.01.zz / Dev.Rev.2		
		V1.7.0.664 / 2015.10.26 / DTM Library 2.42		

Endress+Hauser  People for Process Automation		Detail	Description	HART ID
Prowirl 200 	Function		Vortex Flow Transmitter	0x0038 0x1138
	Order Code		7F2B15-AAACCA1AASK+AA74Z1	
	Serial No.		KC104519000	
	FW version		01.02.03	
	HART revision		7	
	DTM		Prowirl 200 / 7x2B / HART / FW1.02.zz / Dev.Rev.3	
			V1.6.0.423 / 2015.05.26 / DTM Library 2.42	
Promag 50 	Function		Electromagnetic Flow Transmitter	0x0041
	Order Code		50P15-EA0A1AA0ABAW	
	Serial No.		KC103819000	
	FW version		02.04.00	
	HART revision		5	
	DTM		Promag / 50 / HART / FW 2.04.zz / Dev.Rev.9	
			V1.4.184.499 / 2015-10-23 / DTM Library 2.42	

auma® <i>Solutions for a world in motion</i>		Detail	Description	HART ID
AUMATIC 	Function		Actuator control for SA/SAR .2 multi-turn actuators and SQ/SQR .2 part-turn actuators	0xE1FD
	Order Code		SA07.2/AC01.2-SIL	
	Serial No.		2216MA95020	
	FW version		05.03.01-30020	
	HART revision		7	
	iDTM		AUTOMATIC AC 01.2/ACEx 01.2 Rev 1	
			iDTM HART V2.0.269.1702	

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