

Type Approval Certificate

This is to certify that the under noted product(s) have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER Online Development, Inc.

PLACES OF Online Development, Inc. General Microcircuits, Inc. PRODUCTION 7209 Chapman Highway, 1133 N. Main Street,

Knoxville, TN 37920 Mooresville, NC 28115

JSA USA

DESCRIPTION Industrial Communications Controllers

TYPES ProSoft Technology Inc types:

MVI56-ADM MVI56-GSC MVI56-MCM MVI56-MNET MVI56-ADMNET MVI56-ADMNET MVI56-PDPMVI MVI56-PDPS MVI56E-GSC MVI56E-MCM MVI56E-MNET MVI56E-MNET MVI56E-MNETXT MVI56E-MNETR MVI56E-MNETR MVI69-ADM MVI69-GSC

MVI69-GSC MVI69-MCM MVI69-MNET MVI69-ADMNET MVI69-PDPMV1

Certificate No. 10/60006

Issue Date 27 October 2010

Expiry Date 26 October 2015

Sheet 1 of 2 A.Munden

Lloyd's Register

Lloyd's Register North America, Inc.

3050 Harvester Road, Suite 208, Burlington, Ontario, L7N 3J1, Canada

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APPLICATION For use in environmental categories ENV1 and ENV2 as defined in LR

Test Specification No. 1: 2002.

SPECIFIED L STANDARDS

Lloyd's Register Test Specification Number 1, 2002

accordance with Part 6, Chapter 1 of the Rules and Regulations for the

Classification of Ships.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 10/60006 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No. 10/60006

Issue Date 27 October 2010

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Sheet 2 of 2

Lloyd's Register

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Canada

Marine Design Appraisal Document

Lloyd's Register North America, Inc. Toronto Design Support Office 3050 Harvester Road, Suite 208 Burlington Ontario, L7N 3J1 Date

27 October 2010

Quote this reference on all future communications

TDSO/AM/W02458539

LLOYD'S REGISTER TYPE APPROVAL SYSTEM 2002
Issued to: ONLINE DEVELOPMENT INC.
For: INDUSTRIAL COMMUNICATION CONTROLLERS
Types: PROSOFT TECHNOLOGY INC. TYPES

MVI56-ADM, MVI56-GSC, MVI56-MCM, MVI56-MNET, MVI56-ADMNET, MVI56-MBP, MVI56-PDPMV1, MVI56-PDPS, MVI56E-GSC, MVI56E-MCM, MVI56E-MCMXT, MVI56E-MNET, MVI56E-MNETXT, MVI56E-MNETR, MVI69-ADM, MVI69-GSC, MVI69-MCM, MVI69-MNET, MVI69-ADMNET AND MVI69-PDPMV1

TYPE APPROVAL CERTIFICATE NO: 10/60006

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Approval Services Request for Quotation form	19 February 2010
Inspection and Surveillance of Production Facilities Report (OLDI – Knoxville, TN) – NOS1000269	23 July 2010
Inspection and Surveillance of Production Facilities Report (GMI – Mooresville, NC) – NOS1000320	2/9/2010
ProSoft Technology letter re ProSoft factories	28 October 2009
ProSoft letter re Lloyd's Certification	13 January 2010
EMI/EMC Test Procedure for the MVI56/MVI56E/MVI69/PS69 Series Modules	4 November 2009
Environmental Test Procedure for the MVI56/MVI56E Series Modules	4 November 2009
Environmental Test Procedure for the MVI69/PS69 Series Modules	4 November 2009
MVI56-ADM Datasheet	31 January 2007
MVI56-GSC Datasheet	31 January 2007
MVI56-MCM Datasheet	23 January 2007
MVI56-MNET Datasheet	31 January 2007
MVI56-ADMNET Datasheet	31 January 2007
MVI56-MBP Datasheet	13 February 2008
MVI56-PDPMV1 Datasheet	5 March 2008
MVI56-PDPS Datasheet	22 January 2007
MVI56E-GSC Datasheet	18 September 2009
MVI56E-MCM Datasheet	4 March 2009
MVI56E-MCM & MV156E-MCMXT Datasheet	30 April 2009
MVI56E-MNET & MV156E-MNETXT Datasheet	2 July 2009
MVI56E-MNETR Datasheet	18 June 2009
MVI69-ADM Datasheet	16 May 2008
MVI69-GSC Datasheet	16 May 2008
MVI69-MCM Datasheet	16 May 2008

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register Group entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Form 6438MAR (2007.06)

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Date

27 October 2010

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Burlington Ontario, L7N 3J1 Canada Quote this reference on all future communications

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Appendix

MVI69-MNET Datasheet	16 May 2008
MVI69-ADMNET Datasheet	16 May 2008
MVI69-PDPMV1 Datasheet	29 February 2008

MVI56:

1301183_assy_bottom.pdf - PCB assembly drawing for MVI56	17 May 2006
1301183_assy_top.pdf - PCB assembly drawing for MVI56	17 May 2006
1301257 assy top.pdf - PCB assembly drawing for Ethernet Daughterboard	18 September 2007
mvi Enet pcb partslist.xls - Parts List for Ethernet Daughterboard PCB assembly	· E
mvi Enet pcb schem.pdf - Schematic for Ethernet Daughterboard PCB assembly	19 July 2001
mvi1756 pcb partslist.xls - Parts List for MVI56 PCB assembly	-
mvi1756 pcb schem.pdf - Schematic for MVI56 PCB assembly	12 March 2002
mvi56 withEnet assembly drawing.pdf - MVI56 with Ethernet Mechanical Assembly	18 September 2001
mvi56 withEnet assy partslist.xls - Parts List for MVI56 with Ethernet module	-

MVI56E:

1700258_E2_UL-NDA 20100420-1.pdf – Parts List	-
1301281-NDA 20100420-1.pdf – Schematic	8/3/2007
Assy Drawing Bottom-NDA 20100420-1.pdf – PCB assembly drawing	29 February 2008
Assy Drawing Top-NDA 20100420-1.pdf - PCB assembly drawing	29 February 2008

MVI69:

1301016 assy top.pdf - Parts Placement for MVI69 Ethernet PCB	18 December 2003
1301271_assy_bottom.pdf - Bottom Parts Placement for MVI69 PCB	1/10/2008
1301271_assy_top.pdf - Top Parts Placement for MVI69 PCB	1/10/2008
mvi69 enet pcb PartsList.xls – Parts List for MVI69 Ethernet PCB	-
mvi69 enet pcb schem.pdf - Schematic for MVI69 Ethernet PCB	9 December 2003
mvi69 pcb PartsList.xls – Parts List for MVI69 PCB	-
mvi69 pcb schem.pdf - Schematic for MVI69 PCB	10 January 2008
mvi69 withEnet assembly drawing.pdf - Assembly drawing for MVI69 with Ethernet module	16 August 2006
mvi69 withEnet PartsList.xls – Parts List for MVI69 with Ethernet module	-

<u>ProSoft Daughterboards:</u>

pro-mvi-pdps-1.2_sch.pdf — Schematic for MVI-PDPS Profibus DP Slave	8 November 2004
MVI-PDPS Rev 1.2 BOM.xls – MVI-PDPS Bill of Materials	-
sch-mvi-mbp-1.0.pdf – Schematic for MVI-MBP Communications (Dual Port)	11 May 2004
MVI-MBP2 Rev 1.2 BOM.xls – MVI-MBP2 Bill of Materials	#
sch-pro-mvi56-dpv1-1.1.pdf – Schematic for MVI56 Profibus DPV1 Master	24 August 2004
MVI56-DPV1 Rev 1.3 BOM.xls – MVI56-DPV1 Bill of Materials	-
pro-mvi69-dpv1-1.0_sch.pdf – Schematic for MVI69 PROFIBUS DPV Master	21 July 2005
MVI69-DPV1 Rev 1.1 BOM.XLS – MVI69-DPV1 Assembly Bill of Materials, Hardware & Overlay	_

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27 October 2010

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Appendix

TEST REPORTS

PROS0045 Rev 1 – EMC Test Report for MVI56 Modules	4 May 2010
PROS0046 – EMC Test Report for MVI69 Modules	29 December 2009
ENV002301SC Rev 3 – EMI/EMC & Environmental Test Report	28 April 2010
PROS0064 Rev 1 – EMC Test Report for MVI69 Modules	28 April 2010
LR Witnessed Performance Test Report	03/08/10
TN001-09 ProSoft Technology Technical Note MVI56E-MCM Performance	03/10/09
TN04-MVI56MNET-10 ProSoft Technology Technical Note MVI56-MNET Standby Applications	10/08/10
TN05-MVI56MCM-10 ProSoft Technology Technical Note MVI56-MCM Module Standby Applications	10/12/10
TN05-MVI56PDPMV1-10 ProSoft Technology Technical Note MVI56-PDPMV1 Standby Application	10/14/10
TN05-MVI56MBP-10 ProSoft Technology Technical Note MVI56-MBP Standby Application	10/15/10

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register North America, Inc. reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

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FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Part 3 Control Units (Part 3)

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
Online Development, Inc. 7209 Chapman Highway, Knoxville, TN 37920	Industrial Communications Controllers ProSoft Technology Inc types:		ENV1 ENV2 (2002)	Expires: 26 October 2015	10/60006
United States of America	MVI56-ADM	Application Development Module	(/		
(USA)	MVI56-GSC	Generic ASCII Serial Interface Module			
	MVI56-MCM	Modbus Master/Slave Module			
	MVI56-MNET	Modbus TCP/IP Module			
	MVI56-ADMNET	Application Development Module with Ethernet			
	MVI56-MBP	Modbus Plus Module			
	MVI56-PDPMVI	PROFIBUS DPV1 Master Module			
	MVI56-PDPS	PROFIBUS DP Slave Module			
	MVI56E-GSC	Generic ASCII Serial Enhanced Module			
	MVI56E-MCM	Enhanced Modbus Master/Slave Module	ļ		
	MVI56E-MCMXT	Enhanced Modbus Master/Slave Module			
	MVI56E-MNET	Enhanced Modbus TCP/IP Client/Server			
		Module			
	MVI56E-MNETXT	Enhanced Modbus TCP/IP Client/Server			
		Module			
	MVI56E-MNETR	Enhanced Modbus TCP/IP Client/Server			
		Module			
	MVI69-ADM	Application Development Module			
	MVI69-GSC	Generic ASCII Serial Interface Module			
	MVI69-MCM	Modbus Master/Slave Module			
	MVI69-MNET	Modbus TCP/IP Module			
	MVI69-ADMNET	Application Development Module with			
	MVI69-PDPMV1	Ethernet PROFIBUS DPV1 Master Module			A.
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