



FCC 47 CFR PART 15 SUBPART B

Applicant : ICP DAS CO., LTD.
Address : No. 111, Guangfu N. Rd., Hukou Township, Hsinchu County 30351, Taiwan, R.O.C.
Product Type : ICP DAS IO System
Trade Name : ICP DAS
Model Number : PM-4324 System
Test Specification : FCC 47 CFR PART 15 SUBPART B: Oct., 2014
ANSI C63.4: 2014
CISPR 22: 2008
Receive Date : Aug. 28, 2015
Test Period : Sep. 09 ~ 10, 2015
Issue Date : Oct. 08, 2015

Issue by

A Test Lab Techno Corp.
No. 140-1, Changan Street, Bade City,
Taoyuan County 334, Taiwan R.O.C.
Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330

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Verification of Compliance

Issued Date: 2015/10/08

Applicant : ICP DAS CO., LTD.
Address : No. 111, Guangfu N. Rd., Hukou Township, Hsinchu County
30351, Taiwan, R.O.C.
Product Type : ICP DAS IO System
Trade Name : ICP DAS
Model Number : PM-4324 System
EUT Rated Voltage : AC 100-250V, 50-60Hz, 2.0A
Test Voltage : 120 Vac / 60 Hz
Applicable : FCC 47 CFR PART 15 SUBPART B: Oct., 2014
Standard : ANSI C63.4: 2014
CISPR 22: 2008
Test Result : Complied
Performing Lab. : A Test Lab Techno Corp.

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<http://www.atl-lab.com.tw/e-index.htm>

The above equipment has been tested by A Test Lab Techno Corp., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved By
(Manager)

: Misty Wu
(Misty Wu)

Reviewed By

(Testing Engineer)

: Frank Lin
(Frank Lin)

1 General Information

1.1 Summary of Test Result

Emission			
Standard	Item	Result	Remark
FCC 47 CFR PART 15 SUBPART B ANSI C63.4	Conducted Emission	PASS	Meet Class A limit
FCC 47 CFR PART 15 SUBPART B ANSI C63.4	Radiated Emission	PASS	Meet Class A limit

The test results of this report relate only to the tested sample(s) identified in this report. Manufacturer or whom it may concern should recognize the pass or fail of the test result.

1.2 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty (dB)
Conducted Emission	AC Power Port	9kHz ~ 30MHz	2.8

Test Item	Test Site	Frequency Range	Uncertainty (dB)		
Radiated Emission	TE06	30MHz ~ 1000MHz	Horizontal	5.2	
			Vertical	5.5	
	TE01	1000MHz ~ 6000MHz		4.7	
			6000MHz ~ 18000MHz		5.1
					5.6
					5.1
	TE09	1000MHz ~ 6000MHz		4.3	
			6000MHz ~ 18000MHz		4.6
					5.6
					5.1

Note: The Vertical and Horizontal measurement uncertainty of 1GHz to 6GHz is evaluated and choose which polarity is worst value.

Feature of Equipment under Test :

The model listed below is series model to PM-4324 System.

Main	Software	Diversity	Mode 1
USB-2026	---	5-channel Analog Input, 2-channel Analog Output, 2-channel Digital Input and 2-channel Digital Output Module	V
SV-4201-CE7	---	10.4" SmartView with AM3354 CPU and WinCE7 OS	V
IWS-4201-CE7	---	InduSoft based PAC with 10.4" LCD (WinCE7 OS)	
VP-4201-CE7	---	10.4" ViewPAC with AM3354 CPU and CE7 OS	
VP-4208-CE7	---	10.4" Win-GRAF ViewPAC	
PMD-4201	---	Power Meter Concentrator with 10.4" LCD	
TPD-280-H	---	2.8" touch HMI device with RS-485	
TPD-280U-H	---	2.8" Touch HMI device with RS-485, USB download, RTC	
TPD-283-H	---	2.8" touch HMI device with Ethernet	
TPD-283U-H	---	2.8" touch HMI device with RS-485, USB, RTC, Ethernet	V
GW-7243D	---	DeviceNet Slave / Modbus Master Gateway	V
GW-7243D-X	---	DeviceNet Slave / Modbus Master Gateway (X : The Cover is mean any color)	
GW-7433D	---	Modbus TCP server & Modbus RTU slave to CANopen master Gateway	V
GW-7433D-X	---	Modbus TCP server & Modbus RTU slave to CANopen master Gateway (X : The Cover is mean any color)	
GW-7434D	---	Modbus/TCP server to DeviceNet master Gateway	V
GW-7434D-X	---	Modbus/TCP server to DeviceNet master Gateway (X : The Cover is mean any color)	
uPAC-7186EXD-CAN	---	Programmable Automation controller with two series communication port (RS-232/RS-485), one CAN port, one Ethernet port, 7-segment Display, 4 programable LEDs, 512 KB flash ,512 KB SRAM, developing tool kit, Minios7.	V
uPAC-7186EXD-CAN-X	---	Programmable Automation controller with two series communication port (RS-232/RS-485), one CAN port, one Ethernet port, 7-segment Display, 4 programable LEDs, 512 KB flash ,512 KB SRAM, developing tool kit, Minios7 (X : The Cover is mean any color)	
I-7188EF-016	---	FRnet uPAC	
I-7188EFD-016	---	FRnet uPAC with LED display	V
X511	---	3-Port RS-485	V
X607	---	128KB BBSRAM	V
I-8KE4	---	I-8KE4 Embedded I/O unit	
I-8KE4-X	---	I-8KE4 Embedded I/O unit (X : The Cover is mean any color)	
I-8KE4-MTCP	---	4-slots Ethernet I/O unit	
I-8KE4-MTCP-X	---	4-slots Ethernet I/O unit (X : The Cover is mean any color)	
I-8KE8	---	I-8KE8 Embedded I/O unit	V

Main	Software	Diversity	Mode 1
I-8KE8-X	---	I-8KE8 Embedded I/O unit (X : The Cover is mean any color)	
I-8KE8-MTCP	---	8-slots Ethernet I/O unit	
I-8KE8-MTCP-X	---	8-slots Ethernet I/O unit (X : The Cover is mean any color)	
USB-87P1	---	1 slot I/O Expansion Unit	
USB-87P2	---	2 slot I/O Expansion Unit	
USB-87P4	---	4 slot I/O Expansion Unit	V
USB-87P8	---	8 slot I/O Expansion Unit	
XP-8041-CE6	---	0 I/O slot WinCE 6.0 Based Standard XPAC (OS: Multi-Language version)	
XP-8341-CE6	---	3 I/O slot WinCE 6.0 Based Standard XPAC (OS: Multi-Language version)	V
XP-8741-CE6	---	7 I/O slot WinCE 6.0 Based Standard XPAC (OS: Multi-Language version)	
XP-8046-CE6	---	0 I/O slot WinCE 6.0 Based Indusoft + ISaGRAF XPAC (OS: Multi-Language version)	
XP-8346-CE6	---	3 I/O slot WinCE 6.0 Based Indusoft + ISaGRAF XPAC (OS: Multi-Language version)	
XP-8746-CE6	---	7 I/O slot WinCE 6.0 Based Indusoft + ISaGRAF XPAC (OS: Multi-Language version)	
XP-8047-CE6	---	0 I/O slot WinCE 6.0 Based ISaGRAF XPAC (OS: Multi-Language version)	
XP-8347-CE6	---	3 I/O slot WinCE 6.0 Based ISaGRAF XPAC (OS: Multi-Language version)	
XP-8747-CE6	---	7 I/O slot WinCE 6.0 Based ISaGRAF XPAC (OS: Multi-Language version)	
XP-8048-CE6	---	0 I/O slot WinCE 6.0 Based Win-GRAF XPAC (OS: Multi-Language version)	
XP-8348-CE6	---	3 I/O slots WinCE 6.0 Based Win-GRAF XPAC (OS: Multi-Language version)	
XP-8748-CE6	---	7 I/O slots WinCE 6.0 Based Win-GRAF XPAC (OS: Multi-Language version)	
XP-8049-CE6	---	0 I/O slot WinCE 6.0 Based InduSoft XPAC (OS: Multi-Language version)	
XP-8349-CE6	---	3 I/O slots WinCE 6.0 Based InduSoft XPAC (OS: Multi-Language version)	
XP-8749-CE6	---	7 I/O slots WinCE 6.0 Based InduSoft XPAC (OS: Multi-Language version)	
I-8041PW	---	32-channel Isolated Self Protected Digital Output Module	V
I-8041PW-X	---	32-channel Isolated Self Protected Digital Output Module (X : The Cover is mean any color)	
I-8041W	---	32-channel Isolated Self Protected Digital Output Module	
I-8041W-X	---	32-channel Isolated Self Protected Digital Output Module (X : The Cover is mean any color)	
DN-8K32R	---	32-channel relay output board Include : CA-3705A (37 Pin Male-Female D-sub cable 0.5M)	V
I-8172W	---	2-port FRnet module	V
I-8172W-X	---	2-port FRnet module (X : The Cover is mean any color)	

Main	Software	Diversity	Mode 1
I-87017W	---	8-channel Analog Input Module	V
I-87017W-X	---	8-channel Analog Input Module (X : The Cover is mean any color)	
I-87017RW	---	8-channel Analog Input Module with High Overvoltage Protection	
I-87017RW-X	---	8-channel Analog Input Module with High Overvoltage Protection (X : The Cover is mean any color)	
I-87017W-RMS	---	8-channel True RMS Input Module	V
I-87017W-RMS-X	---	8-channel True RMS Input Module (X : The Cover is mean any color)	
I-87H17W	---	8-channel HART Current Input Module	V
I-87H17W-X	---	8-channel HART Current Input Module (X : The Cover is mean any color)	
I-8124	---	1 Port DeviceNet Master Module with dual port RAM	
I-8124-X	---	1 Port DeviceNet Master Module with dual port RAM (X : The Cover is mean any color)	
I-8124W	---	1 Port DeviceNet Master Module with dual port RAM	V
I-8124W-X	---	1 Port DeviceNet Master Module with dual port RAM (X : The Cover is mean any color)	
I-8014W	---	16-bit 250K sampling rate 8/16-channel analog input module	V
I-8014W-X	---	16-bit 250K sampling rate 8/16-channel analog input module (X : The Cover is mean any color)	
I-8017DW	---	8-channel Analog Input Modul	V
I-8017DW-X	---	8-channel Analog Input Module (X : The Cover is mean any color)	
I-8017HCW	---	8-channel Analog Input Module	V
I-8017HCW-X	---	8-channel Analog Input Module (X : The Cover is mean any color)	
I-87015W	---	7-channel RTD Input Module	V
I-87015W-X	---	7-channel RTD Input Module (X : The Cover is mean any color)	
I-87015PW	---	7-channel RTD Input Module with 3-wire Lead Resistance Elimination	V
I-87015PW-X	---	7-channel RTD Input Module with 3-wire Lead Resistance Elimination (X : The Cover is mean any color)	
I-8064	---	8-channel Power Relay Output Module	
I-8064-X	---	8-channel Power Relay Output Module (X : The Cover is mean any color)	
I-8064W	---	8-channel Power Relay Output Module	V
I-8064W-X	---	8-channel Power Relay Output Module (X : The Cover is mean any color)	
PIR-130-AC	---	PIR Motion Sensor and Temperature Sensor Module	
PIR-130-DC	---	PIR Motion Sensor and Temperature Sensor Module	V
I-7565-CPM	---	USB to CANopen Master Converter	V

Main	Software	Diversity	Mode 1
I-7565-CPM-X	---	USB to CANopen Master Converter (X : The Cover is mean any color)	
I-7565-DNM	---	USB/DeviceNet Master communication Converter with D-sub 9-pin connector	V
I-7565-DNM-X	---	USB/DeviceNet Master communication Converter with D-sub 9-pin connector. (X : The Cover is mean any color)	
NS-208G	---	Unmanaged 8-port 10/100/1000 Base-T Ethernet Switch with Power Input +10 VDC ~ +30 VDC	
NSM-208G	---	Unmanaged 8-port 10/100/1000 Base-T Ethernet Switch with Power Input +10 VDC ~ +30 VDC, metal casing	V
DN-8468G	---	DN-8468GB is for general purpose usage	V
DN-8468GB	---	DN-8468GB is for general purpose usage	
DN-8468UB	---	Photo-isolated Universal Snap-on Wiring Terminal Board	
DN-8468MB	---	DN-8468MB is for Mitsubishi servo J2 Amplifier	
DN-8468PB	---	DN-8468PB is for Panasonic servo minas A Amplifier	
DN-8468FB	---	DN-8468FB is for FUJI FALDIC-W servo Amplifier	
DN-8468DB	---	DN-8468YB is for Delta ASDA A servo Amplifier	
DN-8468	---	Photo-isolated terminal board for ICPDAS four-axis stepper/servo controller	
DN-8468YB	---	DN-8468YB is for Yaskawa servo Amplifier	
I-7550E	---	PROFIBUS/Ethernet Converter	V
GST-63-M	---	Seismic Switch with Metal casing	V
PALERT	---	Seismic Switch with Metal casing	V
NS-205G	---	Unmanaged 5-port Industrial 10/100/1000 Base-T Ethernet Switch	V
PM-4324P	---	Modbus RTU, Multi-Channel Power Meter (Compatible with CTs from 50 to 1200A/333mV output)	
PM-4324-100P	---	Modbus RTU, Multi-Channel Power Meter (60 A)	V
PM-4324-160P	---	Modbus RTU, Multi-Channel Power Meter (100 A)	
PM-4324-240P	---	Modbus RTU, Multi-Channel Power Meter (200 A)	
PM-4324-360P	---	Modbus RTU, Multi-Channel Power Meter (300 A)	
PM-4324-400P	---	Modbus RTU, Multi-Channel Power Meter (400 A)	
PM-4324-600P	---	Modbus RTU, Multi-Channel Power Meter (600A)	
PM-4324-1000P	---	Modbus RTU, Multi-Channel Power Meter (1000 A)	
PM-4324-100P-MTCP	---	Modbus TCP, Multi-Channel Power Meter (60 A)	
PM-4324-160P-MTCP	---	Modbus TCP, Multi-Channel Power Meter (100 A)	
PM-4324-240P-MTCP	---	Modbus TCP, Multi-Channel Power Meter (200 A)	
PM-4324-360P-MTCP	---	Modbus TCP, Multi-Channel Power Meter (300 A)	

Main	Software	Diversity	Mode 1
PM-4324-400P-MTCP	---	Modbus TCP, Multi-Channel Power Meter (400 A)	
PM-4324-600P-MTCP	---	Modbus TCP, Multi-Channel Power Meter (600A)	
PM-4324-1000P-MTCP	---	Modbus TCP, Multi-Channel Power Meter (1000A)	
PM-4324-100P-CPS	---	CANOpen, Multi-Channel Power Meter (60 A)	
PM-4324-160P-CPS	---	CANOpen, Multi-Channel Power Meter (100 A)	
PM-4324-240P-CPS	---	CANOpen, Multi-Channel Power Meter (200 A)	
PM-4324-360P-CPS	---	CANopen, Multi-Channel Power Meter (300 A)	
PM-4324-400P-CPS	---	CANopen, Multi-Channel Power Meter (400 A)	
PM-4324-600P-CPS	---	CANopen, Multi-Channel Power Meter (600 A)	
PM-4324-1000P-CPS	---	CANopen, Multi-Channel Power Meter (1000 A)	
PM-3033	---	Modbus RTU, 3-phase power meter (1A/5A CT Input type)	V
PM-3033-MTCP	---	Modbus TCP, 3-phase power meter (1A/5A CT Input type)	
PM-3033-CPS	---	CANopen, 3-phase power meter (1A/5A CT Input type)	
I-8092F	---	High-speed 2-axis Motion Control Module with FRnet Master	V
I-8092F-X	---	High-speed 2-axis Motion Control Module with FRnet Master (X : The Cover is mean any color)	
I-8057W	---	16-channel Isolated Digital Output Module	V
I-8057W-X	---	16-channel Isolated Digital Output Module (X : The Cover is mean any color)	
USB-2560	---	4-Port Industrial USB 2.0 Hub	V
USB-2560/S	---	4-Port Industrial USB 2.0 Hub with GPSU06U-6	
I-7514U	---	Isolated 4 Channels RS-485 Repeater/Hub/Splitte	
I-7514U-X	---	Isolated 4 Channels RS-485 Repeater/Hub/Splitte (X : The Cover is mean any color)	
I-7514U-OEM1	---	Isolated 4 Channels RS-485 Repeater/Hub/Splitte	
I-7514U-OEM1-X	---	Isolated 4 Channels RS-485 Repeater/Hub/Splitte (X : The Cover is mean any color)	
I-8052	---	8-channel Isolated Digital Input Module	
I-8052-X	---	8-channel Isolated Digital Input Module (X : The Cover is mean any color)	
I-8052W	---	8-channel Isolated Digital Input Module	V
I-8052W-X	---	8-channel Isolated Digital Input Module (X : The Cover is mean any color)	

Devices Description					
Product		Manufacturer	Model Number	Serial Number	Power Cord
1.	Keyboard	Microsoft	1366	66903907570	Power by PC
2.	Mouse	DELL	MOC5UO	I0S02009	Power by PC
3.	Monitor	DELL	U2410f	CN-OJ257M-72872-09J-0 1AL	Non-Shielded, 1.8m
※ PC Keypart information					
Main		Software	Diversity		Mode 1
PCI-P8POR8U		---	Universal PCI, 8-channel Isolated Digital Input and 8-channel Photo-MOS Relay Output		V
PCI-P16POR16		---	16-channel isolated digital input. 16-channel PhotoMos Relay output. Includes one CA-4037W cable and two CA-4002 D-Sub connectors.		
PCI-P16POR16U		---	Universal PCI, 16-channel Isolated Digital Input and 16-channel Photo-MOS Relay Output		
PEX-P32A32		---	PCI Express, 32-channel Isolated Digital Input and 32-channel Isolated Open-collector output Board		V
PEX-P32C32		---	PCI Express, 32-channel Optically Isolated Digital Input and 32-channel Optically Isolated Digital Open-collector output Board. (Current Sinking) Includes one CA-4037B cable and two CA-4002 D-Sub connectors.		
PISO-PS400		---	PCI Bus, High Speed 4-axis Motion Control Card		V
PCI-2602U		---	Universal PCI, 1 MS/s High-Speed, 16-channel Analog Input, 2-channel Analog Output and 32-channel DIO		V
PIO-DA4		---	PCI bus 4-channel D/A board. Includes one CA-4002 D-Sub connector.		
PIO-DA4/S		---	PCI bus 4-channel D/A board Includes DN-37.		
PIO-DA4U		---	Universal PCI 4-channel D/A board Includes one CA-4002 D-Sub connector.		
PIO-DA4U/S		---	PIO-DA4U with DN-37 Includes one CA-3710 D-Sub cable.		
PIO-DA8		---	PCI bus 8-channel D/A board. Includes one CA-4002 D-Sub connector.		
PIO-DA8/S		---	PCI bus 8-channel D/A board Includes DN-37.		
PIO-DA8U		---	Universal PCI 8-channel D/A board Includes one CA-4002 D-Sub connector.		
PIO-DA8U/S		---	PIO-DA8U with DN-37 Includes one CA-3710 D-Sub cable.		
PIO-DA16		---	PCI bus 16-channel D/A board. Includes one CA-4002 D-Sub connector.		
PIO-DA16/S		---	PCI bus 16-channel D/A board Includes DN-37.		
PIO-DA16U		---	Universal PCI 16-channel D/A board Includes one CA-4002 D-Sub connector.		V
PIO-DA16U/S		---	PIO-DA16U with DN-37 Includes one CA-3710 D-Sub cable.		
PISO-A64		---	64-channel Optically Isolated Open-Collector Digital Output Board (Current Sourcing) Includes one CA-4037B cable and two CA-4002 D-Sub connectors.		V
PISO-730		---	32-channel isolated digital I/O (Input Logic High: 9~24 V) & 32-channel TTL digital I/O board. (current sinking) Includes one CA-4002 D-Sub connector.		

Main	Software	Diversity	Mode 1
PISO-730-5V	---	Universal PCI Bus, 32-channel isolated digital I/O (Input Logic High: 5~12 V) & 32-channel TTL digital I/O board. (current sinking)	
PISO-730U	---	Universal PCI Bus, 32-channel isolated digital I/O (Input Logic High: 9~24 V) & 32-channel TTL digital I/O board. (current sinking)	V
PISO-730A	---	32-channel isolated digital I/O & 32-channel TTL digital I/O board. (current sourcing) Includes one CA-4002 D-Sub connector.	V
PISO-730A-5V	---	32-channel isolated digital I/O (Input Logic High: 5~12 V) & 32-channel TTL digital I/O board. (current sourcing) Includes one CA-4002 D-Sub connector.	
PISO-730AU	---	Universal PCI 32-channel isolated digital I/O (Input Logic High: 5~12 V) & 32-channel TTL digital I/O board. (current sourcing) Includes one CA-4002 D-Sub connector.	
PEX-1202H	---	32-ch, 12-bit, 44 kS/s High Gain Multi-function DAQ Board (1 K word FIFO) Includes one CA-4002 D-Sub connector.	
PEX-1202L	---	32-ch, 12-bit, 110 kS/s Low Gain Multi-function DAQ Board (1 K word FIFO) Includes one CA-4002 D-Sub connector.	V
PEX-D96S	---	PCI Express, 96-channel DIO board (SCSI II Connector, RoHS)	V

Support Unit					
	Product	Manufacturer	Model Number	Serial Number	Power Cord
1.	Industrial Power Supply	ICP DAS	DP-1200	N/A	Non-Shielded, 1.7m with one core

3.4. Test Site Environment

Items	Test Item	Required (IEC 60068-1)	Actual
Temperature (°C)	FCC part 15: 15.107 Conducted Emission	15-35	26
Humidity (%RH)		25-75	60
Barometric pressure (mbar)		860-1060	950
Temperature (°C)	FCC part 15: 15.109 Radiated Emission	15-35	26
Humidity (%RH)		25-75	60
Barometric pressure (mbar)		860-1060	950