



Lloyd's  
Register

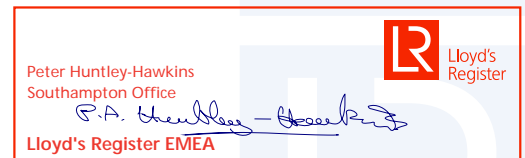
## Type Approval Certificate Extension

*This is to certify* that Certificate No. 04/00057(E1) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	Schneider Electric-Schneider Automation ZI Carros 8ème Rue F-06516 Carros France
<b>PLACE OF PRODUCTION</b>	Schneider Electric-Schneider Automation ZI Carros 8ème Rue F-06516 Carros France
	Pro-face Electronics Co Ltd No 20 Hangjiang Road National Hi-tech Industrial Development District Wuxi, 214028 China
<b>DESCRIPTION</b>	Programmable logic controller

<b>Certificate No.</b>	04/00057(E2)
<b>Issue Date</b>	18 May 2016
<b>Expiry Date</b>	17 May 2021
<b>Sheet</b>	1 of 7



P.A. Huntley Hawkins  
Marine Technology & Engineering Services, Southampton  
Lloyd's Register EMEA

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71 Fenchurch Street, London, EC3M 4BS


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<b>TYPE</b>	Modicon Quantum Automation Platform	
	<u>Comprising</u>	
<b>Basic Processors</b>	140 CPU 113 02	8086 20MHz CPU
	140 CPU 113 03	8086 20MHz CPU
	140 CPU 311 10	8086 66MHz CPU
	140 CPU 434 12 U	8086 66MHz CPU Unity software
	140 CPU 434 12 A	8086 20MHz CPU Concept software
	140 CPU 534 14 A	8086 133MHz CPU Concept software
	140 CPU 534 14B	8086 133MHz CPU Concept software + memory size
	140 CPU 534 14 U	8086 133MHz CPU Unity software
<b>High Performance Processors</b>	140 CPU651 50	Processor for complex application
	140 CPU651 60	Processor for complex application
	140 CPU652 60	Processor for complex application
	140 CPU671 60	Processor for application with redundancy (Hot Stand By)
	140CPU672 61	Processor for application with redundancy (Hot Stand By)
	140 CPU670 60	Hot Stand By Processor
	140 CPU672 60	Hot Stand By Processor
	140 CPU658 60	Stand Alone Processor
	140 CPU678 61	Hot Stand By Processor
<b>Safety Processors</b>	140 CPU651 60S	Stand Alone Safety CPU
	140 CPU671 60S	Hot Standby Safety CPU

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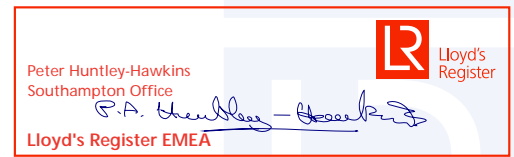
<b>Power Supplies</b>	140 CPS 111 00	120-230 VAC-3A
	140 CPS 114 20	115-230 VAC-11A, summable
	140 CPS 124 00	115-230 VAC-10A, summable
	140 CPS 124 20	115-230 VAC-10A, redundant
	140 CPS 214 00	24VDC-8A, summable
	140 CPS 224 00	24VDC-8A, summable
	140 CPS 414 00	48-60VDC-8A, summable
	140 CPS 424 00	48-60VDC-8A, summable
	140 CPS 524 00	125VDC-8A, redundant
<b>Safety I/O</b>	140 SAI 940 00S	Safety Analogue Inputs
	140 SDI 953 00S	Safety Digital Inputs
	140 SDO 953 00S	Safety Digital Outputs
<b>Memory Units</b> X= memory capacity	TSX MCPCx	Flash EPROM and SRAM Memory from 224Kb to 2Mb
	TSX MFPBx	Flash EPROM Backup memory 96Kb
	TSX MFPPx	Flash EPROM memory from 218Kb to 4Mb
	TSX MRPCx	Configurable SRAM memory for application/file from 768Kb to 7Mb
	TSX MRPFx	SRAM memory from file 4Mb to 8Mb
	TSX MRPPx	SRAM memory for application from 218Kb to 384 Kb
<b>Backplanes</b>	140 XBP002 00	2 slots backplane
	140 XBP003 00	3 slots backplane
	140 XBP004 00	4 slots backplane
	140 XBP006 00	6 slots backplane
	140 XBP010 00	10 slots backplane
	140 XBP016 00	16 slots backplane
	140 XBE 001 00	Backplane extender

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**Discrete I/O Modules**

140 DAI340 00	16*24 Vac input
140 DAI440 00	16*48 Vac input
140 DAI540 00	16*115 Vac input
140 DAI740 00	16*230 Vac input
140 DAI753 00	32*230 Vac input channels
140 DAO840 00	16*24....230 Vac output
140 DAO840 10	16*24....115 Vac output
140 DAO353 00	32*24 Vdc output
140 DAO353 01	32*24 Vdc output
140 DDO843 00	16*10....60 Vdc output channels
140 DDI353 00	32*24 Vdc input
140 DDI841 00	16*10....60 Vdc input
140 DDI853 00	32*10....60 Vdc input channels
140 DDM390 00	16*24 Vac input+8*24 Vdc output
140 DRA840 00	16* Relay output

**Analogue I/O Modules**

140 AVI030 00	8* Voltage/current analogue input
140 AVO020 00	4* Voltage analogue output
140 ACO130 00	8* current analogue output
140 ACO020 00	4* current analogue output
140 ACI040 00	8 current analogue input
140 AMM090 00	4* voltage/current analogue input+4* current analogue output
140 ARI030 10	8 RTD input

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<b>Remote I/O Interface</b>	140 CRA931 00	RIO Drop S908 1 channel
	140 CRA932 00	RIO Drop S908 2 channels
	140 CRP931 00	RIO Head S908 1 channel
	140 CRP932 00	RIO Head S908 2 channel
	140CRA312 00	Rio internet communication
	140 CRP312 00	RIO internet communication
	140 NRP954 00	RIO optical repeater
	140 NRP954 01C	Remote I/O optical repeater (only coated version)
	140 NRP312 00	Ethernet converter multimode fibre
	140 NRP312 01	Ethernet converter monomode fibre
<b>Terminal Block &amp; Accessories</b>	140 XTS 001 00	IP20 compliant 40 positions terminal block
	140 XTS 002 00	40 position terminal block
	140 XTS 005 00	IP20 compliant 7 positions terminal

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**Communication**

140 NOE771 00	Ethernet TCP/IP network
140 NOE771 01	Ethernet TCP/IP network
140 NOE771 11	Ethernet TCP/IP network
140 NOC771 11	Ethernet TCP/IP network
140 NWM100 00	Ethernet TCP/IP network
140 NOM211 00	Modbus SL Bus
140 NOM212 00	Modbus SL Bus
140 NOM251 00	Modbus SL Bus
140 NOM252 00	Modbus SL Bus Optical
140 NOC78 000	Communication module with Ethernet
140 NOC78 100	Communication module with Ethernet
140 NOP850 00	Communication module with Ethernet IEC61850
TCSESM083F23F1	Switch Ethernet IP 8 channels copper
TCSESM063F2CS1	Switch Ethernet IP 6 channels copper and 2 multimodal optic fibres
TCSESM063F2CU1	Switch Ethernet IP 6 channels copper and 2 unimodal optic fibre

**Modbus + Accessories**

490 NAA 271 0x	MB+ cable (x=length)
490 NRP 254 00	MB+ fibre optic repeater line/drop
909 NAA 263 20	Programmable cables RS232
990 NAD 211 10	MB+ drop cable length 2.4 meters
990 NAD 211 30	MB+ drop cable 6 meters
990 NAD 230 00	MB+ tap
990 XCA 656 09	Fibre optic cable 3 meters
AM SA85-002	MB+ AT adapter (ISA Bus)
NW-BP85-00	MB+ Bridge Mux
NW-BP85-002	MB+ Bridge Plus

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<b>Special Modules</b>	140 ERT854 20	Time stamping input
	140 ERT854 30	Time stamping input
	140 EHC105 00	Fast counting 2 channels
	140 EHC202 00	Fast counting 5 channels

**Accessories** Cables, connectors, taps, memory cards.  
 ABE7CPA  
 140XCA  
 140XCP  
 140XSM  
 140XTS  
 TSXMRP  
 TSXMFP

Products may be Followed by "C" (Coated boards)

**APPLICATION** Categories ENV1, ENV2 as defined in LR Type Approval System Test Specification No. 1 2015 where the test specification is satisfactory for the intended operation

**SPECIFIED STANDARDS** IACS E10  
IEC 61131-2

**OTHER CONDITIONS** The equipment is to be installed in suitable metallic cabinets in order to limit the radiated electromagnetic emissions to levels specified within LR Type Approval Test Specification No. 1.

*"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 EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. 04/00057(E2) and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

*All other details remain as the previous Certificate No. 04/00057(E1) to which this extension should be attached.*

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