



## TYPE APPROVAL CERTIFICATE

N. ELE104415CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<b>Description</b>	<b>Programmable Logic Controller</b>
<b>Type</b>	<b>Modicon TSX 57 Premium</b>
<b>Applicant</b>	<b>Schneider Automation SAS ZI Carros 8eme Rue F-06516 Carros France</b>
<b>Manufacturer</b>	<b>Schneider Automation SAS F-06516 Carros France</b>
<b>Testing Standards</b>	<b>RINA Rules for the Classification of Ships.- Part C - Machinery, Systems and Fire protection. - Ch.3, Sect. 6, Table 1</b>

Issued in **Genova** on **April 07, 2015**

This certificate is valid until **April 07, 2020**

**RINA Services S.p.A.**

**Valerio Bonanni**

**Genova, April 07, 2015**

RINA Services S.p.A.  
Via Corsica, 12 - 16128 Genova

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## Product description:

### Processors

TSXP57 102M / 202M / 302M / 402M / 252M / 352M / 452M
TSXP57 103M / 153M / 203M / 303M
TSXP57 253M / 353M / 353LAM / 353AM / 453M / 453 AM / 303 AM
TSXP57 2623M / 2823M / 3623M / 4823M / 3623AM / 4823AM
TSXP57 104M / 154M / 204M / 254M
TSXP57 2634M / 304M / 354M, 3634M
TSXP57 454M / 5634M / 6634M / 1634M / 4634M
TSXP57 554M / 0244M , TSXH57 24M / 44M

### Co-processors

TPCXP57 1012M, TPCXP57 3512M, TPCXP57 203M, TPCXP57 353M
TSXPCI57 354M, TSXPCI57 204M

### Bundle

TSX P57 CA0244M, TSX P57 CD0244M
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### Racks

TSX RKY6 tro 12	Non - extendable racks
TSXRKY4EX to 12EX	Extendable racks

### Memory cards

TSX MRPC x, TSX MRPP x, TSX MRPF x, TSX MFPBx, TSX MFPP x, MCPC x
x represent memory size

### Power Supply module

TSX PSY5520M	24-48Vdc
TSX PSY2600M	100-240Vac 26 W
TSX PSY5500M	100-240Vac 55 W
TSX PSY8500M	100-240Vac 77 W
TSX PSI2010	24Vdc for co-processor
TSX PSY 1610M	24Vdc 30 W
TSX PSY 3610M	24Vdc 50 W

### Discrete I/O modules with terminal blocks

TSX DEY16A2, TSX DEY16A3, TSX DEY08D2, TSX DEY16D2	24-48Vdc digital input
TSX DEY16D3	24-48Vdc digital input
TSX DEY16A4, TSXDEY16A5	100-120Vac and 200-240Vac digital input

### Discrete I/O modules with connectors

TSX DEY 16FK, TSX DEY32D2K,	24-48 Vdc digital input
TSX DEY32D3K, TSX DEY64D2K	24-48 Vdc digital input / output
TSX DMY28FK, TSX DMY28RFK	24-48 Vdc digital input / output

### Discrete I/O modules with terminal block

TSX DSY16S4, TSX DSY16S5, TSX DSY08S5,	24 -120 Vac, 48-240Vac, triac out.
TSX DSY08T2, TSX DSY08T22, TSX DSY16T2,	24-48 Vdc 0.25 / 2A transistor out.
TSX DSY08T31, TSX DSY16T3,	24-48 Vdc 0.25 / 1A transistor out.
TSX DSY08R5, TSX DSY16R5	24-240 Vac-dc relay output
TSXDSY08 R5A, TSXDSY08 R4D,	24-240 Vac-dc relay output protected

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### Discrete I/O modules with connectors

TSX DSY32T2K, TSX DSY64T2K	24Vdc 0.1A transistor out.
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### Analog input modules

TSX AEY420, TSX AEY414, TSX AEY800, TSX AEY1600	Input ( V, I, ohm, T/C)
TSX AEY810, TSX AEY1614	

### Analog output modules

TSX ASY410, TSX ASY800	Output ( V, I)
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### Measurement and counter , motion modules

TSX CTY2A, TSX CTY4A, TSX CTY2C, TSX CSY84, TSX CSY85, TSX CSY164
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### Weighing modules

TSX ISPY101, TSX ISPY101EX
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### Communication modules

TSX SCY11601	1 ch. Modbus
TSX SCY21601	2 ch. : uni-telway, Modbus /J bus and PCMCIA type 3
TSX IBY100	InterBus S
TSX ETY110, TSX ETY410, TSX ETY4102, TSX ETY 4103	Ethernet TCP/IP network
TSX ETY110WS, TSX ETY210, TSX ETY 5101, TSX ETY 5102, TSX ETY 5103, TSX WMY100, TSX ETY 120	Ethernet TCP/IP network + web server
TSX ETG1000	Factory Cast Gateway TCP/IP Modbus

### Communication cards

TSX SCP111, TSX SCP112, TSX SCP114	Modbus / Jbus, Unitelway, character mode
TSX FPP10, TSX FPP20	Fipio / Fipway
TSX MBP100, TSX CPP100, TSX CPP110	Modbus Plus

### Accessory

TSX PCI ACC1
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### Cables

TSXSCYCM6030, TSXSCYCM6530, TSXSCYCU6030, TSXSCYCU6530, TSXCBYxx, TSXMBPCExx TSXCPPxxx
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### Reference documents:

Catalogue MKTED212031EN Modicon Automation Platform May 2012  
Installation Guide NHA3301400

### Remarks:

Product designation can be followed by "C" for coated PCB Versions

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