



TYPE APPROVAL CERTIFICATE
No. ELE16805CS



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

<i>Description</i>	Distributed I/O Modules
<i>Type</i>	Z-PC Series
<i>Applicant</i>	SENECA SRL Via Germania 34, 35127 Padova ITALY
<i>Manufacturer</i>	SENECA SRL
<i>Place of manufacture</i>	Via Germania 34, 35127 Padova ITALY
<i>Reference standards</i>	"RINA Rules for the Classification of Ships - Part C, Machinery, Systems and Fire Protection - Chapter 3, Section 6 , table 1"

Issued in **Genoa** on **May 11, 2006**. This Certificate is valid until **May 11, 2011**

Maggi
RINA

Gianluigi Maggi

This certificate consists of this page and 1 enclosure

Annex to Certificate n° ELE 168 05 CS



Distributed I/O modules **Series Z-PC** including:

Z-TWS

PLC /RTU multifunction process module (Ethernet 10Base-T, RS 232/485)

Z-D-IN

5 ch. digital optoisolated input module / RS485

Z-10-D-IN

10 ch. digital optoisolated input / RS485

Z-D-OUT

5 ch. digital output / RS485 (SPST relay control, 5A 250Vac resistive load) / RS485

Z-10-D-OUT

10 ch. digital output / RS485 (mosfet - 500mA -short circuit protection)

Z-D-IO

6 ch. digital input and 2 ch. relay output ; RS485

Z-DAQ

1 ch. Univ. analog input (T/C, RTD, Resistive Pot., 0-10V, +/- 20 mA)

Z-PID

1 ch. P.I.D. control (In: T/C, RTD, R.Pot. ,V, I -- Out.: 0/4 to 20 mA) / RS485

Z-4AI

4 ch. Voltage 2 to 10 Vfs. or current +/- 20mA / RS485

4TC

4 ch. T/C input (J, K, R, S, T, E, B, N) / RS485

Z-3RTD; Z-4RTD

3 / 4 ch. RTD input (Pt100, Ni100)

Z-8AI

8 ch. single-ended or 4 ch. differential - voltage / current input (ext. shunt)

Z-3AO

3 ch. analog output 0/4...20mA not insulated (load 500 ohm max.)

Z-107

Serial converter RS232-RS485/422

Reference documents:

Series Z - PC Catalogues: n° D10404AITC, D10404AITC

Series Z - PC System Overview

Test Reports:

CMC reports n° : E06008701, V06000301, R06014301, E06054101

SENECA reports n° : RP_Z8AI, RP_3AO, RP_ZTWS2, RP_Z10DIN, RP_Z10DOUT,
RP_Z107-ZPID

Genoa, May 11, 2006