

SERIAL SOLUTION

ADVANCED SERIAL SYSTEM FOR GAS TURBINE AIR INTAKE

Ecoserial C3

The most complete, flexible, versatile and advanced controller for the management of large plants.

The Ecoserial C3 is a device created for the management of the most complex and articulated Gas Turbine air intakes filters. The controller commands new generation pneumatic pilot boxes, called RPA-612.. Ecoserial C3 has three serial port RS485 isolated and independent, to which it is possible to connectup to 64 RPAs, and a PLC for data monitoring.

The user can manage the clearing cycle "in situ", or rather directly on the interface panel Ecoserial C3 or with a remote system, through line RS485 with protocol Modbus.

MAIN STRENGTHS:
- 2 Cable only to control the whole filter house.
- RS485 MODBUS communication from Remote boxes and controller.
- Internal clock for temporized cleaning.
- Leakage detection and automatic module isolation
- Input for Humidity sensor management.
- Fully Customizable cleaning sequence.
- Internal differential pressure gauge.
- System integration with Modbus RS485 RTU

3 WARRANTY YEARS

PRODUCT CERTIFICATIONS

STANDARD

CE

OPZIONALI

cULus

TECHNICAL SPECIFICATIONS

Main Features	Features	Values
Dimensions	External Dimensions (L x H x W mm)	156x175x70
	Weight (kg)	550g
Protection	Protection Level (standard)	Non disponibile. Forniremo solo scheda elettronica Not available. It will be supplied just the electronic board
Temperature	Working Temperature (°C)	-20...+60 vers.CE (OPT -40°C), 40... +65 vers. UL

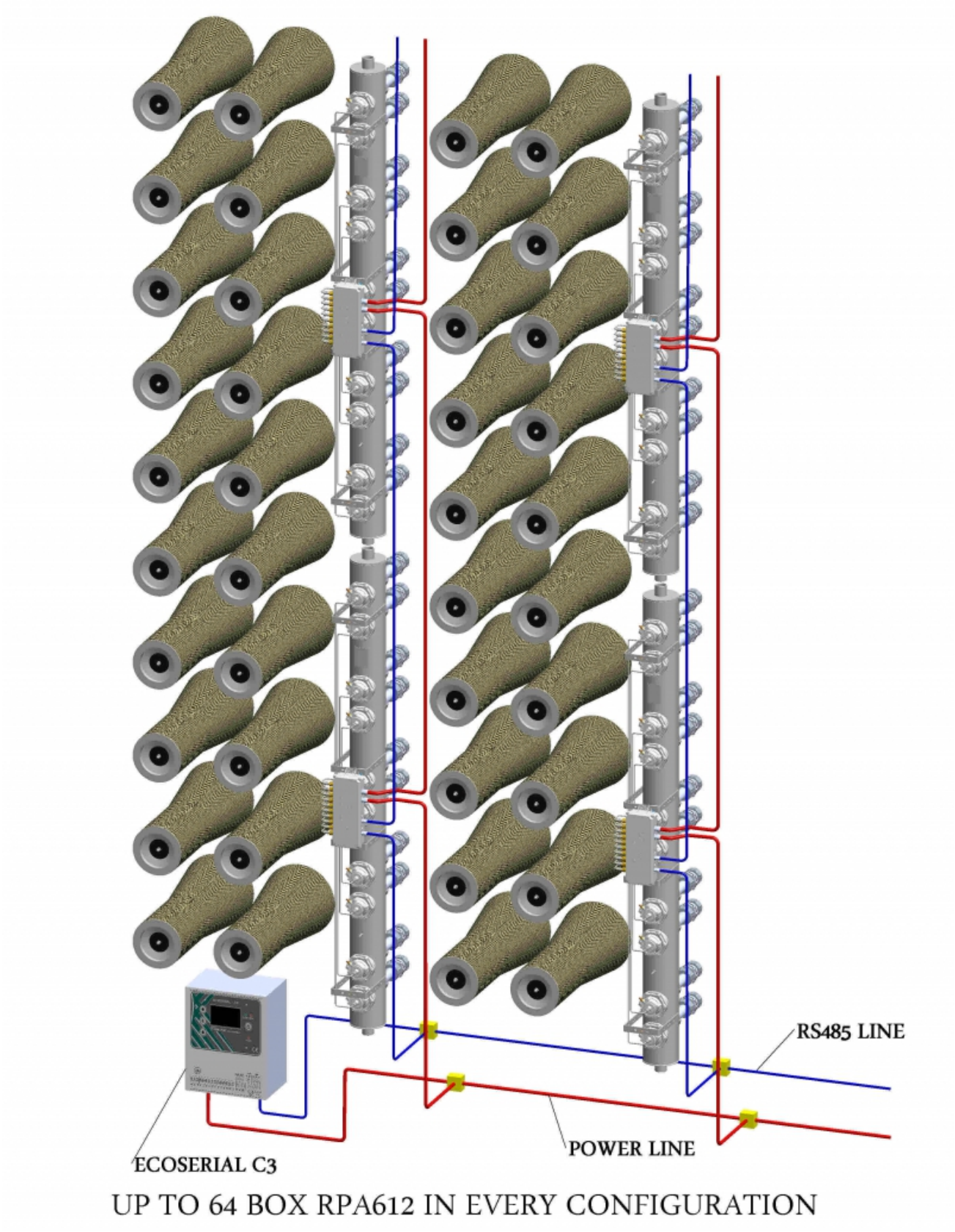
TECHNICAL SPECIFICATIONS

Main Features	Features	Values
Power Supply	Power Supply Range (standard)	90-270Vac 50-60Hz
	Power Consumption	10W
Display	Display Type	LCD
	Resolution	128x64
	Display Color (standard)	yellow-green
Inputs	Digital Inputs (nr)	4 opto-isolated inputs
	Pressure Input	ok
	Pressure Range	0/+9999mmH2O, 0/+9999Pa, 0/+9.999kPa, 0/+99.99mBar
	Analog Input	optional
Outputs	Relay Outputs (nr)	4
	Relay Output Power	8A/270Vac
	4-20mA Output	optional
Functions	Internal clock for temporized cleaning	ok
	Input for humidity sensor management	ok
	Fully customizable cleaning sequence	ok
	Cyclic Management	ok
	Delta Pressure Management	ok
	Customizing Cycles	ok
	Remote Start/Stop	ok
	Autopause	ok
	Post-cleaning	ok
	Cleaning cycle	ok (custom)
	Coils can be activated simultaneously for each output (nr)	128
	Broken Coil Control	ok
	Broken Valve Control	ok
	Pressure Tank Control	ok
Serial Ports	RS485	ok

TECHNICAL SPECIFICATIONS

Main Features	Features	Values
System	Maximum Driver Managed	64 RPA
	Type	MASTER
	Type of driver connectable	RPA
	Type of control driver	SERIAL
Controls	Buttons (nr)	4
Application	Type	Gas Turbine air intake

GENERAL ARRANGEMENT EXAMPLE



UP TO 64 BOX RPA612 IN EVERY CONFIGURATION

HOW TO ORDER

RPA612- x - Hy - EXz(optional) - thr - FTk(optional)-CERTIFICATION

x= 4,5,6,7,8,9,10,11,12 . Number of electro-valves installed.

Hy= H1 or H2. H1= 1 heater installed, H2= 2 heater installed. Not available on Atex IECEX version

EX = EX1 or EX2. Ex1=ATEX/ IECEX zone 1/2/21. Ex2=ATEX zone 22 (optional)

thr = BSP or NPT ¼" female thread on electro-valve body. (if not specified -> ¼" BSP)

FTk=

- 0 or not specified: ¼" BSP Elbow fitting for 6 x 8 mm plastic tubing.
- 1: ¼" NPT Elbow fitting for ¼" plastic tubing.
- 3: ¼" NPT Elbow fitting for 6 x 8 mm plastic tubing.
- 4: ¼" NPT Swagelock Fitting for ¼" Stainless steel tubing.
- 5: ¼" BSP Parker Fitting for ¼" Stainless steel tubing.
- 6: ¼" BSP Generic Fitting for ¼" Stainless steel tubing.

Certification= CE (European community) , UL (Underwriters Laboratories)

Examples 1: RPA612-12-EX1-BSP-FT6-CE :

RPB612 Box with 12 electro-pilots, Atex IECEX zone1/21, electrovalve body with NPT thread, ¼" BSP Generic Fitting for ¼" Stainless steel tubing, CE certified.

PILOT BOX MODEL	AVAILABLE CERTIFICATIONS	PILOTS	WORKING TEMPERATURE RANGE °C	HEATER AVAILABLE
RPA612	CE	OTTONE/BRASS	-40/+60	YES
	CE-UL	ANODIZED ALLUMINIUM	-40/+60	NO
	CE-ATEX IECEX ZONE 21/1	OTTONE/BRASS	-20/+60	NO
	CE-ATEX ZONE 22	OTTONE/BRASS	-40/+60	YES
CONTROLLER	AVAILABLE CERTIFICATIONS		TEMP °C	HEATER AVAILABLE
ECOSERIAL C3	CE		-10/+60	NO
	CE-UL		-10/+60	NO

POWER LINE AND RS485 SERIAL LINE CONNECTIONS

