



SERIAL SOLUTION

ADVANCED SERIAL SYSTEM

RPA-612

The independent and intelligent pilot box.

RPA612 is an instrument designed for the management of the dust filtration system. It has a number of pilot valves varying from 4 to 12 (on request), two relay outputs, two digital inputs, one analog input (optional).

Each electrovalve pilot has to be connected through a RILSAN tube to a pneumatic valve mounted on a compressed air tank.

RPA612 can be provided with heaters to ensure proper function even at low temperatures. The activation of the heaters can be operated manually or by automatic mode as soon as the temperature drops below a threshold.

The management of RPA612 could be done through the instrument ECOSERIAL3, a PLC, a PC or another terminal that uses a serial RS485 with Modbus RTU protocol. In the Exchanging data, RPA612 has the role of slave.



PRODUCT CERTIFICATIONS

STANDARD



TECHNICAL SPECIFICATIONS

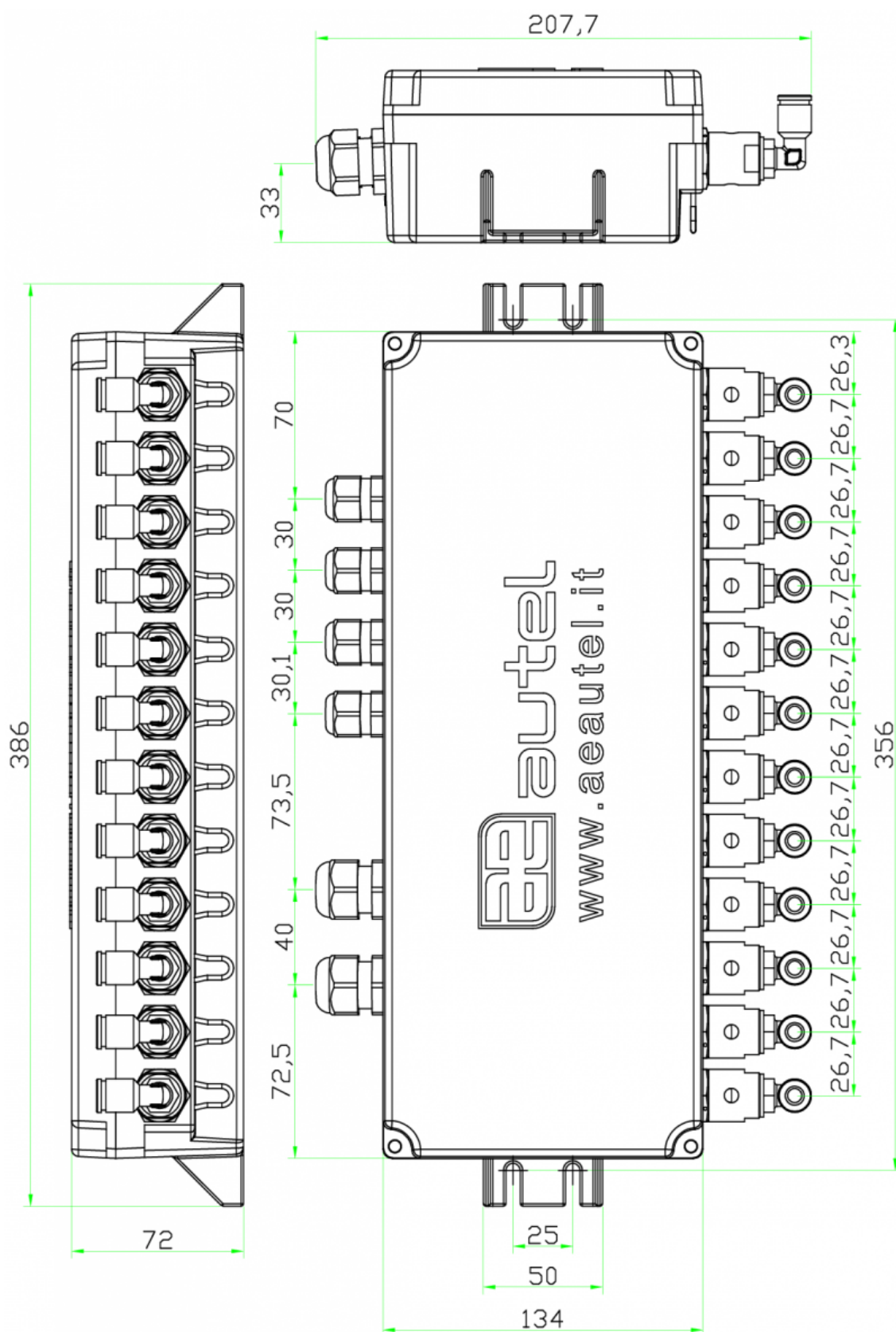
Main Features	Features	Values
Dimensions	External Dimensions (L x H x W mm)	346x134x72
Protection	Protection Level (standard)	IP66, TYPE 4X
Temperature	Working Temperature (°C)	-20... +60 standard version, -40... +60 with heaters
Power Supply	Power Supply Range (standard)	90-270Vac
	Power Consumption	90Vac 9VA, 270Vac 18.9VA
Inputs	Digital Inputs (nr)	2
	Analog Input	ok
Outputs	Relay Outputs (nr)	2
	Relay Output Power	2A 30Vdc/250Vac resistive
	Coils Control Voltage	24Vdc



TECHNICAL SPECIFICATIONS

Main Features	Features	Values
Functions	Cyclic Management	ok
	Broken Coil Control	ok
	Broken Valve Control	ok
	Pressure Tank Control	ok
Serial Ports	RS485	ok
System	Type	SLAVE
	Maximum number of coil	12
	Type of control driver	RS485

DIMENSIONAL LAY-OUT





HOW TO ORDER

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

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 and **cURus** 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)

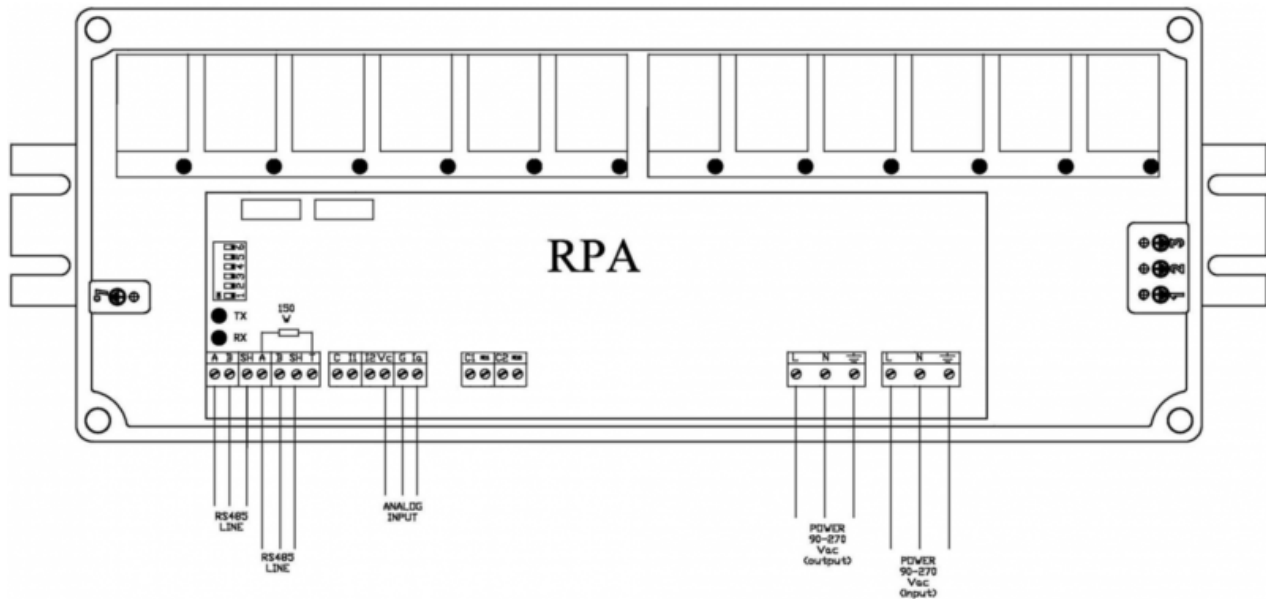
FTk=

- 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 Swagelok 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.

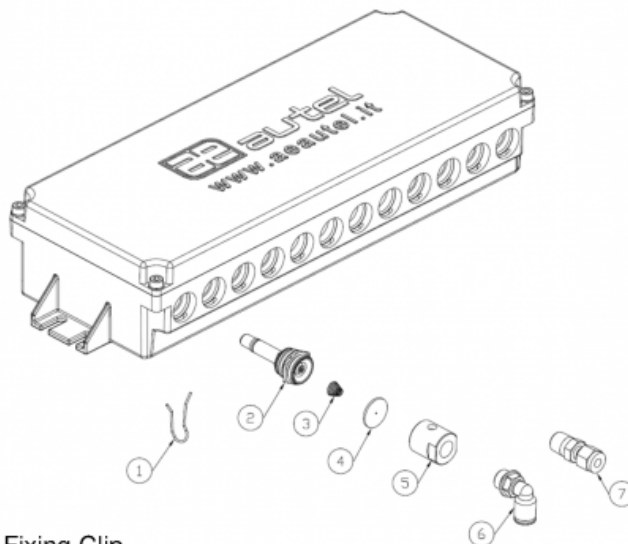
Examples 1: RPA612-12-EX1-BSP-FT6 :

RPA612 Box with 12 electro-pilots, Atex IECex zone1/21, electrovalve body with NPT thread, ¼" BSP Generic Fitting for ¼" Stainless steel tubing.

DESCRIPTION



- RS485 in /out terminals
- Power supply in /out terminals
- 2 digital input
- 2 Relay output
- 1 Analog Input



- 1 – Fixing Clip
- 2 – Electro-valve pilot
- 3 – Electro-valve internal spring
- 4 – Electro-valve internal diaphragm
- 5 – Electro-valve body. Standard with Female BSP 1/4" Thread. Optional with Female NPT 1/4" thread
- 6 – Elbow fitting for tubing to pulse jet valve. Standard BSP 1/4" Thread for 6x8 mm plastic tubing
- 7 – Optional fittings for Stainless steel connection : Swagelock or Parker.

ELECTRICAL CONNECTION

