

ECONET PLUS EC++LS CONTROL UNIT ECONOMISER

128 SOLENOID VALVES RS485 BUS MODBUS RTU PROTOCOL TCP/IP



DESCRIPTION

Economiser for commanding pneumatic cleaning of the industrial dust collector plants, with serial control of up to 128 solenoid valves. In the version with metal container and enhanced power supply unit, the serial control of up to 250 solenoid valves is possible. It has 2 output relay contacts and 4 digital input contacts. Differential pressure digital control through internal transducer, which allows the accurate analysis of the filter clogging status. Luminous LCD screen, which allows to read the following at all times

- the operating status of the unit
- the filter clogging status dP value
- the solenoid valves active and any alarms
- time until the command of the next air jet
- the emission value

Interface menu available in five languages.

OPTIONS UPON REQUEST

- Ethernet communication network board.
- Wi-Fi communication network board.
- Cable glands for power supply input and output of solenoid valves drive cables.
- Analogue and digital electrical tribo sensor management.
- Zone 22 ATEX Certification.

REFERENCE STANDARDS

- Directive 2014/30/EC Electromagnetic Compatibility meeting European harmonised standards EN61000-6-2:2005 class B in standard EN61000-6-4:2001
- Directive 2014/35/EU Low Voltage meeting European harmonised standards EN 60947-1:2004

For additional information and technical specifications, consult
www.turbocontrols.eu

TECHNICAL SPECIFICATIONS

Power supply voltage	115 Vac 50-60 Hz $\pm 10\%$
with automatic switch	230 Vac 50-60 Hz $\pm 10\%$
Power supply voltage upon request	24 Vac $\pm 10\%$ 24 Vdc $\pm 10\%$
Output voltage for solenoid valves	24 Vdc
Inputs	from 4 to 20mA x 1
Outputs proportional to the dP value for remote pressure reading	from 4 to 20mA x 1
Solenoid valves output channels	01 ÷ 128 digital bus
Electric consumption	28 Watts at maximum load
Alarm Relays	2 normally closed Maximum load: 3A @ 250Vac, 2A @ 24Vdc, 24 Vac.

Serial transmission interfaces of the 485 type with Modbus RTU protocol 1

Output from digital Mosfet for an external relay with coil up to 24 Vdc 1

RS485 interface for Tribo Sensor 1

Screen Backlit monochromatic graphic LCD B/N 128 x 64 pixel

5 x 20 mm glass fuse 115 or 230 Vac 1 x 1 A
24 Vac or 24 Vdc 1 x 3 A

Operating temperature -10 °C - 55 °C

Storage temperature -20 °C - 60 °C

Environmental humidity 0 ÷ 95% Relative non condensing

Valves opening impulse time 50 m.sec. ÷ 10 sec.

Interval pause time between valves opening 1 sec. ÷ 7200 sec.

Measurable pressure 0 - 10 kPa

Casing Base in ABS
Lid in Polycarbonate

Protection rating from water and dust IP65 DIN EN 60529

Shock resistance IK07 2 Joule (EN62262)

