E1T CONTROL UNIT SEQUENCER 4÷16 OUTPUT CHANNELS

DESCRIPTION

Sequencer for controlling the pneumatic cleaning of industrial dust collector systems. It has 2 output relay contacts and 2 digital input contacts. 3-digit luminous LED display, which allows to read the unit operating status, the active solenoid valves and any alarms, at all times.

OPTIONS UPON REQUEST

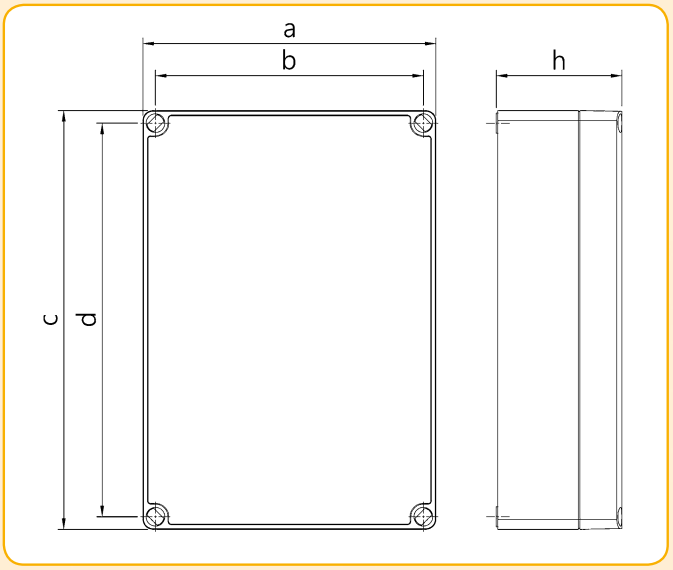
- Activation of 2 solenoid valves for every output channel.
- Cable glands for power supply input and output of solenoid valves drive cables.
- Connector from wired panel for connection to Matrix cabling.
- Built-in pilots for remote control of the pneumatic valves.
- Casing container with different format.
- 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 ± 10 % 230 Vac 50-60 Hz ± 10 %
Power supply voltage upon request	24 Vac ± 10 % 24 Vdc ± 10 %
Output voltage for solenoid valves	115 Vac 50-60 Hz 230 Vac 50-60 Hz 24 Vac 24 Vdc
Inputs	Remote enabling consent switch. Post-cleaning cycles fan switch.
Solenoid valves output channels	4 ÷ 16
Electric consumption	28 Watts at maximum load
Alarm Relays	2 normally closed Maximum load: 3A @ 250Vac, 2A @ 24Vdc, 24 Vac.
Screen	3 x 0.8 inch digit 7-segment LED display
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. ÷ 5 sec.
Interval pause time between valves opening	1 sec. ÷ 999 sec.
Casing	Base in ABS Lid in Polycarbonate
Protection rating from water and dust	IP65 DIN EN 60529
Shock resistance	IK07 2 Joule (EN62262)



Number of output channels	Dimension of the Structure				
	a	b	c	d	h
4 ÷ 8	175	160	175	160	75
12 ÷ 16	175	160	250	235	75

DIGITAL DIFFERENTIAL PRESSURE SWITCH - E3T

DESCRIPTION

Differential pressure reading and communication of the minimum and maximum dP through 2 separate relays.
Possibility of saving the data and alarms on SD board.
Differential pressure digital control through internal transducer, which allows the accurate analysis of the filter clogging status.
3-digit luminous LED display, which allows to read the filter clogging status, the active solenoid valves and any alarms, at all times.
Data storage SD memory board.

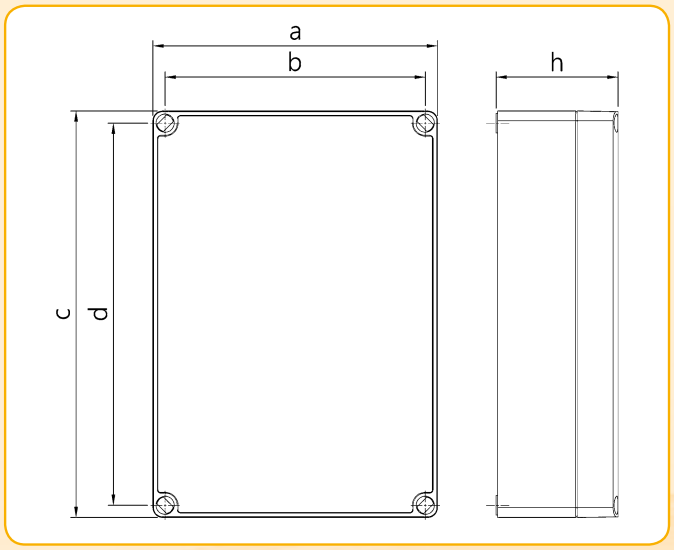
OPTIONS UPON REQUEST

- Cable glands for power supply input.
- 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

TECHNICAL SPECIFICATIONS	
Power supply voltage	115 Vac 50-60 Hz ± 10 % 230 Vac 50-60 Hz ± 10 %
Power supply voltage upon request	24 Vac ± 10 % 24 Vdc ± 10 %
Active output 4-20mA	Proportional to the dP reading for remote consultation of the pressure.
Electric consumption	6 Watts at maximum load
Alarm Relays	2 normally closed Maximum load: 3A @ 250Vac, 2A @ 24Vdc, 24 Vac.
Differential pressure switch	0 - 10 kPa
Screen	3 x 0.8 inch digit 7-segment LED display
5 x 20 mm glass fuse	315 mA
Operating temperature	-10 °C - 55 °C
Storage temperature	-20 °C - 60 °C
Environmental humidity	0 ÷ 95% Relative non condensing
Casing	Base in ABS Lid in Polycarbonate
Protection rating from water and dust	IP65 DIN EN 60529
Shock resistance	IK07 2 Joule (EN62262)



Dimension of the Structure

a	b	c	d	h
175	160	175	160	75

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

E9T CONTROL UNIT FOR E9TRB TRIBO SENSOR

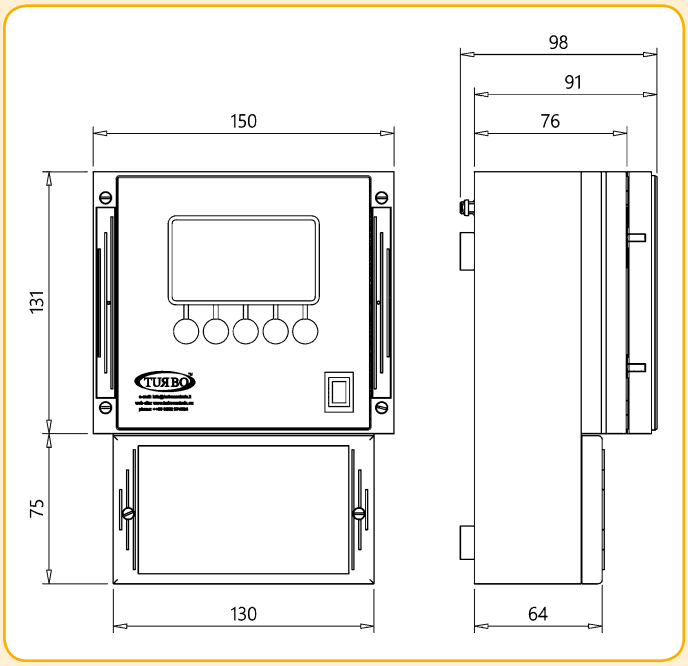
TECHNICAL SPECIFICATIONS	
Power supply voltage	115 Vac 50-60 Hz ± 10 % 230 Vac 50-60 Hz ± 10 %
Power supply voltage upon request	24 Vac ± 10 % 24 Vdc ± 10 %
Electric consumption	3 Watts at maximum load
Outputs proportional to the value of 4 ÷ 20 mA	1
Alarm Relays	3 peak, pre-alarm, alarm
485 type serial transmission interfaces with Modbus RTU protocol	1 per probe connection 1 Per PC – PLC - SV
Display	Backlit monochromatic graphic LCD B/N 128 x 64 pixel
Operating temperature	-10 °C - 55 °C
Storage temperature	-20 °C - 60 °C
Environmental humidity	0 ÷ 95% Relative non condensing
Casing	Base in ABS Lid in Polycarbonate
Protection rating from water and dust	IP65 DIN EN 60529

DESCRIPTION

The charge displacement probe is a measuring instrument with micro-processor, the E9T control unit is used to set, manage and display the signals coming from the electric tribo sensor.

The probe detects the dust in a gaseous fluid, with displacement of the electric charge in the electrode, induced by the electric charges. The quantity of electric charge induced on the electrode is proportional to the amount of dust present in the gaseous fluid.

An increase in the concentration of the dusts determines a proportional increase of the signal that reaches the micro-processor. The signal is interpreted and displayed on the control unit screen.



OPTIONS UPON REQUEST

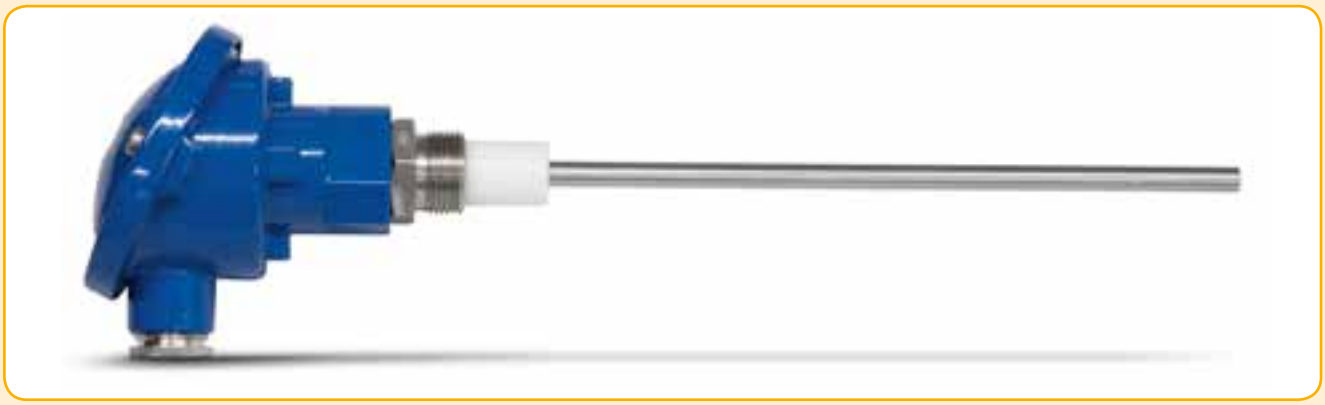
- Cable glands for power supply input.
- Zone 22 ATEX Certification.

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**

E9TRB TRIBO SENSOR WITH CHARGE DISPLACEMENT

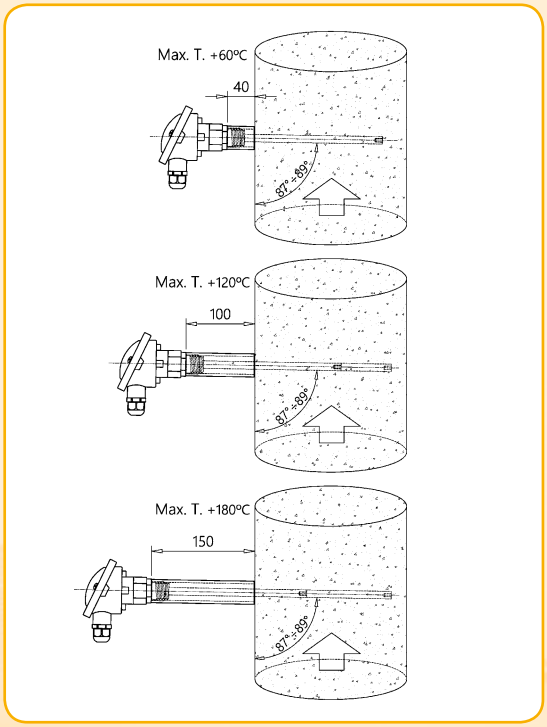


DESCRIPTION

The charge displacement probe is a measuring instrument with microprocessor, is pre-calibrated, with two open-collector type optically-isolated digital outputs, an Rs485 serial line to configure and/or download data, a PWM 4/20 mA output and brief LED indications for the operating modes. The probe is designed to detect and measure the dust emissions caused by breakage of sleeve filters.

The probe detects the dust in a gaseous fluid, with displacement of the electric charge in the electrode, induced by the electric charges. The quantity of electric charge induced on the electrode is proportional to the amount of dust present in the gaseous fluid. An increase in the concentration of the dusts determines a proportional increase of the signal that reaches the micro-processor.

3201058 Threaded Bush F. 3/4"G L040 Max. T. +60°C
3201060 Threaded Bush F. 3/4"G L100 Max. T. +120°C
3201062 Threaded Bush F. 3/4"G L150 Max. T. +180°C



TECHNICAL SPECIFICATIONS

Power supply	20 / 30 Vdc
Maximum input power	1W
Resolution	0.1 mg/m3, 0.01 mg/m3 See versions
Range settings	Automatic/Manual
Dimensions of the dust particles	> 0.3 µm
Type of products that can be measured	Particles of dust in gaseous fluid
Flow speed	> 4 m/s
Measuring principle	Charge displacement
Alarm threshold 3 (Fault)	Activated automatically by the test function
Alarms outputs	n. 3 optoisolated outputs with solid state relay, protected by self-resetting fuses
Outputs maximum current	100 mA
Maximum voltage applicable on the outputs	48 V
Output functions	Can be set normally closed or normally open
Probe operating temperature	< 180°C
Probe operating pressure	< 2 bar
Electrode material	Aisi 304 stainless steel
Container material	Aluminium
Humidity	< 95% non condensing
Environment temperature for the electronics	-20 / +60 °C For higher temperatures mount with spacer
Measurable elements	All non-aggressive gases
Electric connection	1 terminal board with 3 poles + 1 terminal board with 6 poles
Mechanical connection to the structure	3/4" G
Protection rating	IP 65
Display	n°. 4 LEDs
Output PWM 4/20 mA	Active output, optoisolated. Max load 500 Ohm
Serial output	RS485 with two wires

OPTIONS UPON REQUEST

- Zone 22 ATEX Certification.
- Surface treatment in Teflon PTFE for heavy duty use, direct exposure to weather conditions, acid exhaust fumes.

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