Electronic control unit



Technical specifications

- Construction material : 10/10 mm steel plate
- Finish : RAL 7032 grey epoxy powder coat
- Door : Lockable with window
- Installation : Wall mount
- Weight : 22 kg/49 lbs (medium complexity configuration)
- Power supply options : 12Vdc+/-15%
  : 115 Vac 60Hz
  : 230 Vac 50Hz
- Electromagnetic interference : Consistent with 89/336/CE standard
- Humidity : 10% – 90% non-condensing

Dosaodor-D

Electronic control unit

Input signals

- Calibration cylinder high level : Discrete (EExi)
- Calibration cylinder low level : Discrete (EExi)
- Flow Computer alarm signal : Discrete
- Flow Computer instantaneous flow rate : Pulse (max 1 Hz)
- Flow Computer instantaneous flow rate : Analog (4-20 mA)

Output signals

- Injection solenoid valve control (Primary) : Discrete (12 Vdc EExe)
- Injection solenoid valve control (Secondary, B.2 only) : Discrete (12 Vdc EExe)
- Calibration cylinder refill valve : Discrete (12 Vdc EExe)
- Emergency circuit control : Discrete (12 Vdc EExe)
- Injected odorant : Pulse (1 Hz)
- Distributed gas volume : Pulse (1 Hz)
- Injector failure (Primary) : Discrete
- Injector failure (Secondary, B.2 only) : Discrete
- Emergency circuit enabled : Discrete
  (Also indicates that the Dosaodor-D unit is in disabled mode)
- Odorant tank level : Discrete
- Instantaneous odorant concentration : Analog (4-20 mA)
- Daily odorant concentration : Analog (4-20 mA)

Communication ports

One RS-232 serial port is available for local configuration or connected to an GSM modem.

Display

Back-lit alphanumeric 4 line by 40 character LCD.

Operative modes

OFF – MANUAL – AUTOMATIC – WASHING all selectable by appropriate function keys.
Operation INJECTOR 1 - INJECTOR 2 - INJECTOR 1-2 (with B.2 option only).

Configuration protection

Keyed switch for configuration mode selection and battery backed memory to maintain internal configuration data in the event of power failure.

Optional integrated printer

Dot matrix, 42 characters/line, allows for a local hard copy of alarms, operating history and reports.

Pneumatic panel



Technical specifications

- Material : 20/10 mm stainless steel plate
- Installation : Wall mount
- Weight : 25 – 45 kg (55 - 100 lbs)
  (based on configuration)
- Overpressure relief valve : Stainless steel with following rating options
  14 bar (203 psi)
  38 bar (551 psi)
  60 bar (870 psi)
- Electrical protection : Explosion proof and intrinsically safe
- Material electrical protection : Available for European and
  North American standards
- Mechanical connections : Odorant inlet and discharge
  DN 1/4” double ferrule fitting for DN 6x1 pipe
  Gas inlet and discharge
  DN 1/4" single ferrule fitting for DN 8x1 pipe
- Maximum working pressure : Supply 100 bar (1450 psi)
  Injection 14 bar (203 psi)
  38 bar (551 psi)
  60 bar (870 psi)
- Odorant flow rate : 0,5 – 14,0 l/h (0.89 – 24.97 Pound/h at 6.75 lbs/gal)
- Temperature : Working -10 °C +60 °C

Calibration cylinder specifications

- Body material : Stainless steel
- Maximum working pressure : 14 bar (203 psi)
  38 bar (551 psi)
  60 bar (870 psi)
- Maximum design pressure : 100 bar (1450 psi)

Solenoid valves specifications

- Body material : Stainless steel
- Gasket material : FKM
- Valve operation : Electromagnetic
- Maximum working pressure : 14 bar (203 psi)
  38 bar (551 psi)
  60 bar (870 psi)
- Power requirements : 12 Vdc

Stabilizer filter SA/2 specifications

- Body material : Steel
- Maximum working pressure : 100 bar (1450 psi)
- Gasket material : Nitrile (NBR) rubber