

ECHO 28

Flexible wall mount controller
Continuous monitoring of toxic
and/or combustible gases

Expandable gas and flame monitoring panel

The ECHO 28 is a wall mount control panel offering a cost effective solution for light industrial applications. The unit combines ease of installation with an intuitive interface giving low cost maintenance.

Easy installation

The base level Echo 28 is a 4 channel controller, expandable to 28 using quad channel extension boards

System configuration is achieved using a keypad and a friendly user interface.

Flexibility

The ECHO 28 controllers can be interfaced with all SIMTRONICS detectors: combustible gas detectors (4-20 mA), toxic gas detectors (for hazardous areas or not) with 2 or 3 wires and flame detectors. They are also designed to interface with third party products having 4-20 mA or relay outputs.

The ECHO 28 provides the following outputs, as standard. 4 adjustable alarm thresholds per channel, Modbus output, configurable relays (zoning).

Features

Wall mounted unit

ModBus interface

Integral buzzer

Configurable relays

8 relay expansion module

High power relays

Expandable from 4 to 28 channels

Benefits

Self contained, no cabinet or rack

Data handling processed by PLCs

No need for additional sounder

Flexible outputs for third party interfaces

Additional flexibility to third party systems

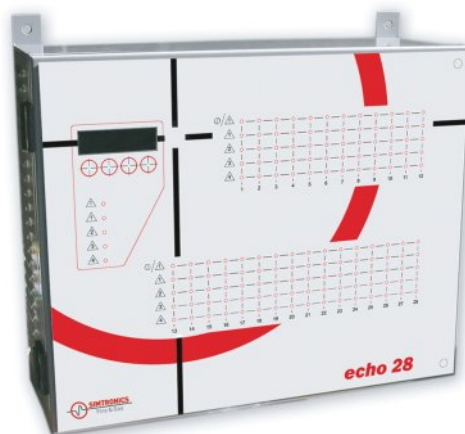
Optional control of flashing beacons, sounder beacons or solenoid valves

Fitted to any kind of configuration

Applications

The ECHO 28 is ideal for light industrial or service sectors applications, such as:

- Laboratories
- Chemical plants
- Solvent storage
- Industry



Technical data

GENERAL

Mounting Wall mounted enclosure
Inputs 4-20mA

PERFORMANCES

Capacity 4 channels as standard
Expandable to 28 channels with additional quad channel modules

Display Digital LCD with back-lit screen
- Number of channels
- Measured value
- Units

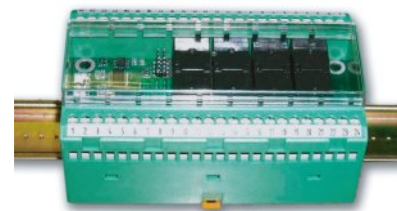
LED display
- Green: healthy
- Red: high and low alarms
- Yellow: fault or alarm check

Mesasurement ranges Configurable
- ppm, %LEL, %Vol., others

Alarm thresholds 4 upper and lower alarm levels by measurement channel

Keyboard Test key
(check of the controller sounder and visual devices)
- Acknowledge key

Buzzer integral



8 relay expansion module

OUTPUT SIGNAL

Relay outputs 5 integral relays
- 1 general fault
- 4 configurable alarm relays

Relay rating 230 V AC - 2A
- Option 8 relay expansion module
(max. capacity 64 configurable relays, max. distance between controller and relay module 2km)

Digital output RS232 ModBus
- Option RS485

Remote acknowledge function

ELECTRICAL

Power supply 230 V AC or 110 V AC, 24 V DC
- Option Integral battery back-up

ENVIRONMENTAL

Temperatures
- Storage -20°C to +50°C
- Operational 0°C to +45°C

Humidity 90% RH (non-condensing)

HOUSING

Wall mounted 430 x 350 x 160 (l, w, d)
Connection Cable gland + terminal block

APPROVALS

Conformities
LOW VOLTAGE 73/23 CEE, 93/68 CEE directive and ATEX directive
EN 61779-1:2000, EN 61779-4:2000,
EN 61779-5:2000, CEI EN 60065 (Ex CEI 1213), CEI EN 60335-1

ELECTROMAGNETIC COMPATIBILITY 89/336 CEE directive
EN 50081-1, EN 50082-1

REFERENCES AND OPTIONS

ECHO 28 Expandable 4 channel controller
MOD4V 4 channel expansion module
MODBAT Optional integral battery back-up
MODREL 8 relay expansion module

OTHER PRODUCT

ECHO 2/4 2 or 4 channel controller
ET08 Toxic gas detector
E008 Oxygen depletion detector
EX05 Combustible gas detector
SAMSYS Sampling detection unit CO/NO₂ for car parks