ECHO 28

Expandable gas and flame monitoring panel

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

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).

Applications

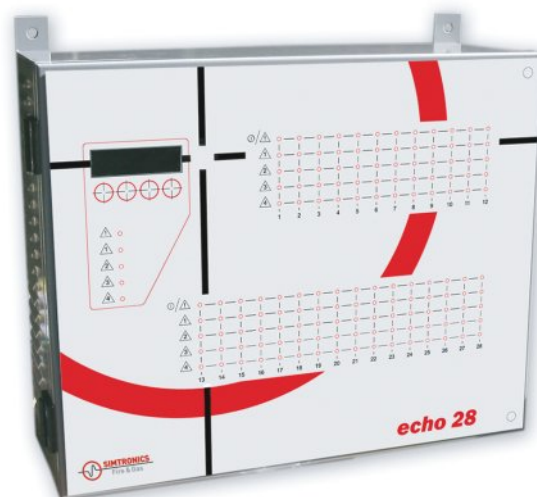The ECHO 28 is ideal for light industrial or service sectors applications, such as:

• Laboratories

• Chemical plants

• Solvent storage

• Industry

Features

Features	Benefits
Wall mounted unit	Self contained, no cabinet or rack
ModBus interface	Data handling processed by PLCs
Integral buzzer	No need for additional sounder
Configurable relays	Flexible outputs for third party interfaces
8 relay expansion module	Additional flexibility to third party systems
High power relays	Optional control of flashing beacons, sounder beacons or solenoid valves
Expandable from 4 to 28 channels	Fitted to any kind of configuration

SIMTRONICS
Fire & Gas

Technical data

GENERAL

Mounting	Wall mounted enclosure
Inputs	4-20mA

PERFORMANCES

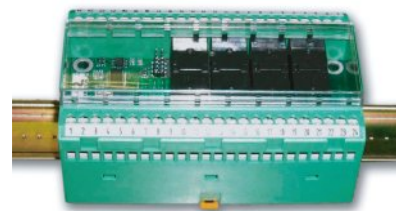|	
Capacity	4 channels as standard
	Expandable to 28 channels with additional quad channel modules
Display	Digital LCD with back-lit screen
	- Number of channels
	- Measured value
	- Units
LED display	
	- Green: healthy
	- Red: high and low alarms
	- Yellow: fault or alarm check
Mesaurement ranges	Configurable
	- 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 89/336CEE 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/NO_2 for car parks

SIMTRONICS
Fire & Gas