ECHO 2 / 4
Detection unit

Wall mount controllers
Continuous monitoring of toxic and/or combustible gases

The ECHO 2/4 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 ECHO 2/4 detection unit can be easily installed without specific tools.

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

Flexibility

The ECHO 2/4 controllers can be interfaced with all SIMTRONICS detectors: combustible gas detectors (4-20 mA or 3 wire mV Wheatstone bridge), 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 2/4 provides the following outputs, as standard. 4 adjustable alarm thresholds per channel, Modbus output, configurable relays (zoning).

Applications

The ECHO 2/4 is ideal for light industrial or service sector applications, such as:

- Laboratories
- Boiler rooms
- Wastewater treatment plants
- Solvent storage

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

SIMTRONICS
Fire & Gas

ECHO 2 / 4
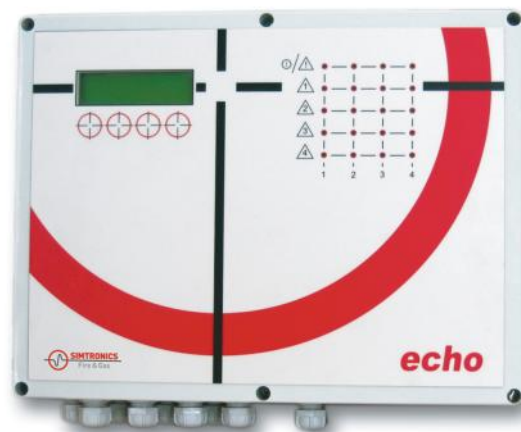
Technical data

GENERAL

Mounting   Wall mounted enclosure
Inputs   4-20mA or mV Wheatstone bridge

PERFORMANCES

Capacity   2 or 4 channels
Display   Digital on LCD with back-lit screen
                - Number of channels
                - Measured value
                - Units
LED display
                - Green: operational
                - Red: high and low alarms
                - Yellow: fault or alarm check
Measurement 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

OUTPUT SIGNAL

Relay outputs   - 5 integral relays
                - 1 general fault
                - 4 configurable alarm relays
Relay rating   230 V AC - 2A
- Optional 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

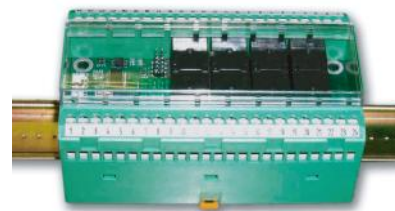### ELECTRICAL

Power supply   230 V AC 50-60 Hz / 1A
                115 V AC 50-60 Hz / 2 A
                24 V (24 to 28 VDC); 6 A Minimum
- Option   Integral battery back-up

ENVIRONMENTAL

Temperatures
- Storage   -20°C to +70°C
- Operational   0°C to +45°C
Humidity   90% RH (non-condensing)

HOUSING

Wall mounted   315 x 230 x 90 mm (l, w, d)
Connection   Cable gland + terminal block

8 relay expansion module

APPROVALS

Conformity
LOW VOLTAGE 73/23 CEE, 93/68CEE and ATEX directive
                EN 50054
                EN 50057

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

REFERENCES AND OPTIONS

ECHO-02   2 measurement channel units
ECHO-04   4 measurement channel units
BATTECHO2/4   Optional integral battery back-up
MOD8R   8 relay expansion module

OTHER ECHO LINE PRODUCTS

ECHO-28   Expandable unit 4 to 28 channels
ET08   Toxic gas detector
EO08   Oxygen depletion detector
EX05   Combustible gas detector
ECHO-SAMSYS   Sampling detection units CO/NO_2 for car
                parks

SIMTRONICS
Fire & Gas

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