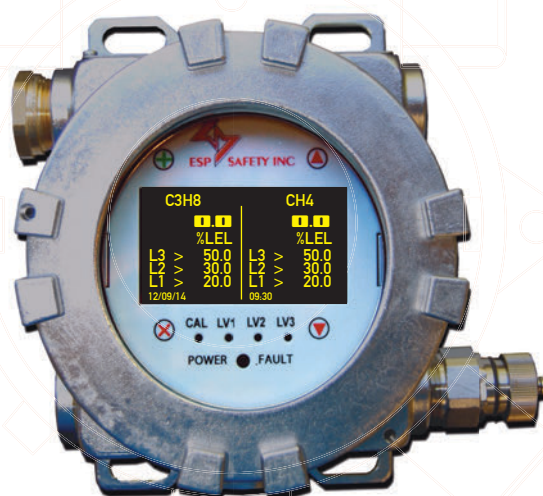



ESP SAFETY INC
**Technology of the Future
Protection for Today**


ESP Safety's Vector is a state-of-the-art field control unit that performs as an integrated control terminal and display for ESP Safety's toxic and/or combustible gas detectors. The Vector can operate as a stand-alone display for a variety of ESP Safety's detectors which can be remotely located up to 500 feet away. A sensor head can also be attached directly to the display housing to produce a unified detector/display unit.

Key Features

- Configurable to control & monitor up to 2 detectors
- A vivid, 2.7" (diagonal) 128x64 pixel resolution, OLED screen simultaneously displays a wide range of data including gas concentrations, alarm levels, faults and operational modes.
- Analog 4-20 current loop w/ HART, Digital RS-485 Modbus RTU and 4 relays are standard data communication channels of the VECTOR FCU
- Event log is stored in on-board memory and is accessible via RS-485 Modbus RTU
- Operating Temp Range of -58°F to +167°F (-50°C to +75°C)
- SIL certification by independent 3rd party agency (pending)
- 316 Stainless Steel construction, explosion-proof housing, Class 1, Division 1
- Non-Intrusive, on-site detector calibration via a HART Field Communicator or Magnectic Wand

HART
COMMUNICATION FOUNDATION


VECTOR FIELD CONTROL UNIT & DISPLAY

Applications

- Offshore platforms
- Land rigs
- Shipping tankers, freighters, and other vessels
- LNG/LPG processing & storage facilities
- Oil & gas refineries
- Petrochemical plants
- Gas & electric utilities

Additional Features

Display:

- Non-intrusive operator interface is easily achieved by contacting a magnetic wand with the glass housing cover and accessing the intuitive, menu-driven programming
- Tri-color status LED indicates operational mode, fault & gas presence

Control Terminal:

- Two - Analog 4-20mA Signal Outputs
- Four - Direct Relay Outputs are standard

CONTACT

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CALIFORNIA

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Ph: +1-408-886-9746 | Fx: +1-408-886-9757

TEXAS

4001 W. Sam Houston Parkway N. Ste #150 | Houston, TX 77043
Ph: +1-713-999-1050 | Fx: +1-713-999-1060

Electrical Characteristics

Voltage	+24VDC Nominal (+18 to 32VDC)
Power	4.3 W, standby 5.3 W, during alarm 12.0 W with heater on (temp ≤ 30°C)
Outputs	1) Analog signal: 2x +4-20mA 2) Digital RS-485 Modbus RTU 3) HART communication port 4) Three User Programmed Alarm Relays One Fault Condition Programmed Relay

Technical Specifications

Humidity	0 to 100% relative humidity, non condensing
Operating Temperature	-58°F to +167°F (-50°C to +75°C) -76°F to +167°F (-50°C to +75°C), with heater enabled
Storage temperature	-76°F to +185°F (-60°C to +85°C)
Ingress Protection	IP67
SIL Rating	TBA

Mechanical Characteristics

Material	316 Stainless Steel
Conduit Connection	5 Conduit Entries, 3/4" NPT
Dimensions	7.50" x 5.60" x 4.28" (190.5mm x 142.24mm x 108.71mm)
Weight	12.8 lbs (5.8 kg)
Warranty	5 years

Certifications



Class I, Division 1
Groups B, C & D
T4 Ta = -58°F to +167°F
(-50°C to +75°C)
IP66



Ex d IIC T4
-58°F to +167°F
(-50°C to +75°C)
IP66



Class I, Division 1
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T4 Ta = -58°F to +167°F
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