The following items for the VECTOR may be ordered:

Accessories:

Calibration Magnet, P/N 120-0076 RS-485 to USB Converter, P/N 260-0021 HART Connection Cable, P/N 260-0009

Detectors:

PGU Sensor Assembly-Methane, P/N 100-0015-C1
PGU Sensor Assembly-Propane, P/N 100-0015-C3
PGU Sensor Assembly-Carbon Monoxide, P/N 100-0015-C0
PGU Sensor Assembly-Carbn Dioxide, P/N 100-0015-C02
PGU Sensor Assembly-Hydrogen, P/N 100-0015-H2
PGU Sensor Assembly-Hydrogen Sulfide, P/N 100-0015-H2S
PGU Sensor Assembly-Ammonia, P/N 100-0015-NH3
PGU Sensor Assembly-Oxygen, P/N 100-0015-O2
PGU Sensor Assembly-Sulfur Dioxide, P/N 100-0015-SO2
PGU Sensor Assembly-Nitrogen Dioxide, P/N 100-0015-NO2

For applications not listed above, please contact ESP Safety

Contact ESP Safety:

USA

555 North First Street San Jose, CA 95112 USA Tel: (408) 886-9746

Fax: (408) 668-0848 email: info@espsafetyinc.com

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actuation during functional testing.

7. Disconnect or power down all output devices and alarms to prevent false

6. Verify that the Vector cover is securely fastened.

5. If using a remotely located gas detector(s), verify that the connections between the VECTOR and the gas detecor(s) are secure and functional.

4. Verify that the enclosure is properly earth-grounded.

3. Verify that all sensor wiring wiring has been installed correctly.

sealed, it necessary 3. Verify that all sensor wiring wiring has been installed correctly

2. Verify that all conduit/cable gland entries have been tightened and

1. Verify that the VECTOR has been properly mounted.

Pre Startup Checklist:

have been completed:

Prior to startup of the VECTOR Filed Control Unit, review that the following

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:91isd9w

The VECTOR Operating Manual can be downloaded from the ESP Safety

instructions, refer to the VECTOR Operating Manual.

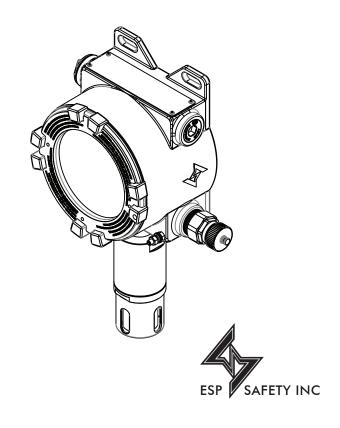
electrical installation of the VECTOR Field Control Unit in preparation for product startup. For detailed testing, troubleshooting and operation

This Quick Start Guide provides basic guidelines for mechanical and

OVERVIEW

VECTOR FIELD CONTROL UNIT

VECTOR Field Control Unit, P/N 100-0008 PGU Sensor Assembly, P/N 100-0015-xx



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9. Mounting Hardware, P/N 125-0020

8. Calibration Magnet, (Qty 1), P/N 120-0076 *one provided per 1-10 VECTOR

7. 10mm Hex Wrench (Qty 1), P/N 120-0078 *one provided per 1-10 VECTOR

6. PGU Sensor Assembly (Qty 1), 100-0015-xx

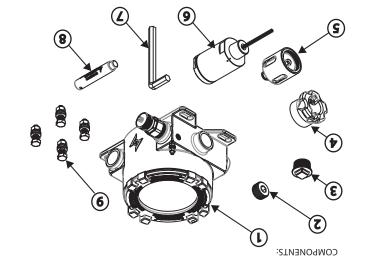
4. PGO Calibration Cup (Qty 1), P/N 125-0007 5. PGU Protective Cap (Qty 1), P/N 125-0007

4. PGU Calibration Cup (Qty 1), P/N 120-0015-01 *one provided per 1-10 VECTOR

2. 3/4" NPT Threaded Plug (Qty 1), P/N 420-0210 3. 3/4" NPT Threaded Plug w Raised Head (Qty 1), P/N 125-0015

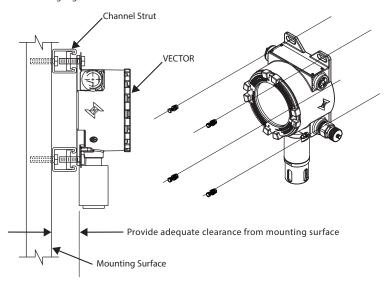
The typical VECTOR delivery set consists of the following components

1. VECTOR Field Control Unit (Qty 1), P/N 100-0008



VECTOR FIELD CONTROL UNIT

1. Secure mounting bracket to a stable surface using the VECTOR's integral mounting lugs



- 2. Provide a minimum 1.5" clearance between the VECTOR and the mounting surface.
- 3. Orient the VECTOR with the sensor assembly (PGU) at the 6-oʻclock position (pointed down).

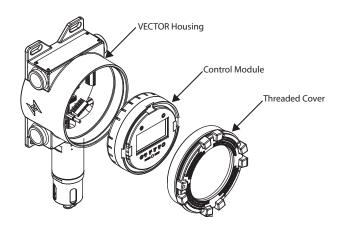
Additional mounting details can be found on page 13 of the VECTOR Operating Manual.

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ELECTRICAL INSTALLATION:

Access the Vector terminal board

1. Remove the VECTOR's threaded front cover by turning counter-clockwise.



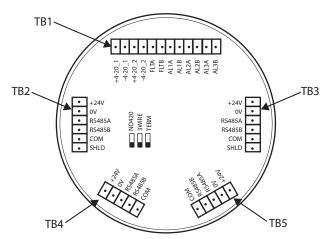
- 2. Separate the Control Module from the Terminal Board.
- 3. Connect wiring to the appropriate locations on the Terminal Board.
- 4. When completed, reattach the Control Module to the Terminal Board. Ensure that the control module is fully seated.
- 5. Run the earth ground wire to the external ground stud on the detector cover.

Additional wiring details can be found on pages 14-19 of the VECTOR Operating Manual.

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ELECTRICAL INSTALLATION:

VECTOR Terminal Board



TERMINIAL BLOCK TRA	LADEL	FUNCTION
TERMINAL BLOCK TB1	LABEL	FUNCTION
TB1-1	+4-20_1	Channel 1 +4-20mA output (sourcing)
TB1-2	-4-20_1	Channel 1 4-20mA loop common
TB1-3	+4/20_2	Channel 2 +4-20mA output (sourcing)
TB1-4	-4/20_2	Channel 2 4-20mA loop common
TB1-5	FLTA	Fault contact
TB1-6	FLTB	Fault contact
TB1-7	AL1A	Alarm Level 1 contact
TB1-8	AL1B	Alarm Level 1 contact
TB1-9	AL2A	Alarm Level 2 contact
TB1-10	AL2B	Alarm Level 2 contact
TB1-11	AL3A	Alarm Level 3 contact
TB1-12	AL3B	Alarm Level 3 contact

ELECTRICAL INSTALLATION:

TERMINAL BLOCK TB2 TB2-1 TB2-2 TB2-3 TB2-4 TB2-5 TB2-6	LABEL +24V 0V RS485A RS485B COM SHLD	FUNCTION +24VDC power in +24VDC supply return (common/GND) RS-485A RTU connection RS-485B RTU connection RS-485 common Shield
TERMINAL BLOCK TB3 TB3-1 TB3-2 TB3-3 TB3-4 TB3-5 TB3-6	LABEL +24V OV RS485A RS485B COM SHLD	FUNCTION +24VDC power in +24VDC supply return (common/GND) RS-485A RTU connection RS-485B RTU connection RS-485 common Shield
TERMINAL BLOCK TB4 TB4-1 TB4-2 TB4-3 TB4-4 TB4-5	LABEL +24V 0V RS485A RS485B COM	FUNCTION +24VDC power to sensor +24VDC sensor GND Sensor RS-485A connection Sensor RS-485B connection Sensor RS-485 common
TERMINAL BLOCK TB5 TB5-1 TB5-2 TB5-3 TB5-4 TB5-5	LABEL +24V 0V RS485A RS485B COM	FUNCTION +24VDC power to sensor +24VDC sensor GND Sensor RS-485A connection Sensor RS-485B connection Sensor RS-485 common

Additional wiring details can be found on pages 14-19 of the VECTOR Operating Manual.

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