Honeywell SPXCDALMO1

SPXCDALMO1 | Honeywell | Sensepoint XCD Fixed Industrial Gas Detectors

Manufacturer : Honeywell

Product No. : SPXCDALMO1

Product type : Sensepoint XCD Fixed Industrial Gas Detectors

SPXCD : Sensepoint XCD

A - Certification : ATEX/IECEx/KTL/PA and GB

L - Enclosure Material : LM25

M - Entry : M20 (ATEX/IIECEx)

O - Sensor type : Oxygen

1 - Gas Range : Fixed

Shipping weight : 5 Kg

ATEX/IECEx/AP* Oxygen 25.0% v/v with LM25, M20 Entry

Sensepoint XCD Technical Specifications

* **Sensor Type**
* **Value/Setting:** Automatic based on the connected sensor type.
* **Meaning:** The device automatically recognizes the specific sensor cartridge according to its gas type family (e.g., mV, EC, or O2).

* **Signal Output**
* **Fault Level:** $\ge 0.0 < 1.0\text{ mA}$ indicates a fault (refer to table 5 chapter 11.3 for details).
* **Inhibit Level:** 2.0 mA or 4.0 mA (17.4 mA for Oxygen) indicates an inhibit state during configuration or user settings.
* **Normal Measurement:** $4.0\text{ mA to } 20.0\text{ mA}$ represents normal gas

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measurement scaling.
* **Maximum Range:** 22.0 mA indicates maximum over-range status.

* **Alarm Relay 1**
* **Value/Setting:** Value is sensor-dependent, representing the **Lower alarm level**.
* **Configuration:** De-energized (energizes on alarm), Contact Normally Open (NO) which closes on alarm, and configured as Non-latching.

* **Alarm Relay 2**
* **Value/Setting:** Value is sensor-dependent, representing the **Higher alarm level**.
* **Configuration:** De-energized (energizes on alarm), Contact Normally Open (NO) which closes on alarm, and configured as Non-latching.

* **Fault Relay**
* **Value/Setting:** $< 1\text{ mA}$ indicates a Detector Fault.
* **Configuration:** Energized (de-energizes on alarm), Contact Normally Open (NO) which closes on alarm, and configured as Non-latching.

* **Inhibit**
* **Toxic and Flammable:** 2.0 mA (default) or 4.0 mA.
* **Oxygen:** 2.0 mA (default) or 17.4 mA.
* **Meaning:** Signal output is inhibited during menu use. If any relay is set to inhibit relay, then the inhibit relay will be activated.

* **Timeout**
* **Value/Setting:** Disabled.
* **Meaning:** There is no automatic inhibit timeout. The detector waits for a button press before returning to the previous state or setting. The timeout period can be customized in the 'Configure Inhibit' menu within Configuration Mode.

* **Password**
* **Value/Setting:** 0000 (Disabled).
* **Meaning:** A setting of 0000 disables password protection. Changing this value activates password security.

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* **Location (Tag Number)**
* **Value/Setting:** 0000.
* **Meaning:** An optional feature used to identify the location or assign a specific User 'Tag' number to the XCD unit.

* **Temperature**
* **Value/Setting:** ° C.
* **Meaning:** User-selectable display unit between ° C and ° F.

* **Modbus**
* **Parameters:** ID, baud rates, and Parity bit.
* **Default Settings:** ID: 1, Baud rates: 19,200, Parity bit: EVEN.

* **Deadband**
* **Value/Setting:** On.
* **Meaning:** The gas reading will display as zero if it falls within the pre-defined deadband range.

Sensepoint XCD Faults and Warnings Reference

Warnings (W-xx)

* **W-01: Calibration needed**
* **Description:** The unit has not been calibrated for the configured calibration interval, or calibration is necessary due to a change of sensor/gas type.

* **W-02: Transmitter Temperature limits exceeded**
* **Action:** Use the "✓" (tick) key to clear the warning once the temperature returns within acceptable limits.

* **W-03: Alarm setting needs to be configured**
* **Action:** Re-configure the alarm settings to ensure that the upper alarm threshold does not exceed the user-configured scale.

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* **W-04*: Over-range warning**
* **Action:** Use the "✓" (tick) key to clear the warning once the gas levels return within normal limits.

* **W-05*: Sensor switched off to prevent deterioration**
* **Action:** Ensure that there is no flammable gas present in the ambient air, then use the "✓" (tick) key to clear once conditions are within limits.

Faults (F-xx)

* **F-01: Internal I2C failure**
* **Action:** Power cycle the detector. If the fault persists, replace the detector.

* **F-02: Cell failure**
* **Action:** For Toxic sensors, replace the sensor. For Flammable/IR sensors, power cycle the detector; if the fault continues, replace the sensor.

* **F-03: Significant zero drift**
* **Action:** Re-zero or recalibrate the device.

* **F-04: Unexpected sensor fitted**
* **Action:** Replace the sensor with the correct, compatible type.

* **F-05: EEPROM is corrupted**
* **Action:** Reset the transmitter. If the fault does not clear, replace the transmitter.

* **F-06: Low supply voltage**
* **Action:** Reset the transmitter. If the fault does not clear, replace the transmitter.

* **F-07: SRS processor failure**

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* **Action:** Reset the transmitter. If the fault does not clear, replace the transmitter.

* **F-08: RAM read/write fault**
* **Action:** Reset the transmitter. If the fault does not clear, replace the transmitter.

* **F-09: Info. memory corrupted**
* **Action:** Reset the transmitter. If the fault does not clear, replace the transmitter.

* **F-10: Code Memory corrupted**
* **Action:** Reset the transmitter. If the fault does not clear, replace the transmitter.

* **F-11: DAC output failure**
* **Action:** Check the load resistor and verify that the sink/source mode switch is configured properly.

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* **F-12: Heater failure**
* **Action:** Reset the transmitter. If the fault does not clear, replace the transmitter.

* **F-13: Supplied voltage failure**
* **Action:** Check the incoming supply voltage. If the voltage is correct but the error remains, replace the detector.

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