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Instrukart IK-BH-60

Instrukart BH-60 Fixed Hexane Detector User Manual

Model: IK-BH-60 | Brand: Instrukart

INTRODUCTION

The Instrukart BH-60 Fixed Hexane Detector is designed for the continuous monitoring of Hexane gas, toxic gases, and other harmful gases in industrial environments, particularly in oil plants. This device features a display for real-time gas concentration readings. Upon detecting gas levels exceeding predefined setpoints, the BH-60 activates audible and visual alarms, prompting users to implement safety protocols to prevent potential explosions or poisoning incidents.

Key features of the BH-60 Hexane Detector include:

- Stable signal transmission, ensuring reliable data.
- High precision for accurate gas concentration measurements.
- Rapid response time to gas presence.
- Long operational life and short polarization time for the industrial-grade sensor.
- Explosion-proof structure design for enhanced safety in hazardous areas.
- Compatibility with 4-20mA standard signals for integration into Distributed Control Systems (DCS).
- Suitable for various industries including metallurgical, petroleum, chemical, and municipal sectors.

PACKAGE CONTENTS

Verify that all items listed below are present in the package:

- 1 Unit of Instrukart BH-60 Fixed Hexane Detector



Image: The Instrukart BH-60 Fixed Hexane Detector, a blue industrial device with a digital display showing "%VOL" and "8.8.8.8", and a red alarm light on the side.

SETUP

Proper installation is crucial for the accurate and safe operation of the BH-60 detector. Consult local electrical codes and safety regulations before installation.

- 1. Mounting Location:** Select a mounting location where the target gas is most likely to accumulate. For Hexane, which is heavier than air, mount the detector closer to the ground. Ensure the location is free from excessive vibration, direct sunlight, and extreme temperatures.
- 2. Secure Mounting:** Use appropriate hardware to securely mount the detector to a stable surface. The device features mounting brackets for this purpose.
- 3. Wiring:**
 - Ensure power is disconnected before wiring.
 - Connect the power supply (Corded Electric) according to the wiring diagram provided in the full technical manual.
 - If integrating with a control system, connect the 4-20mA output signal wires to the designated input terminals of

your DCS or PLC.

- Ensure all connections are tight and properly insulated to maintain the explosion-proof integrity.

4. **Initial Power-On:** After all connections are secure, apply power to the detector. The device will undergo a self-test sequence. Allow a warm-up period (typically a few minutes) for the sensor to stabilize before expecting accurate readings.

5. **Verification:** Observe the display for initial readings. If an alarm sounds immediately, ensure the area is clear of gas and recheck connections.



Image: A side view of the Instrukart BH-60 Fixed Hexane Detector, highlighting the robust casing and connection points for wiring.

OPERATING INSTRUCTIONS

The BH-60 operates continuously once powered on. Understanding its indications is key to effective monitoring.

Display Readings

- The digital display shows the current gas concentration in %VOL (percentage by volume).
- Under normal conditions, the reading should be near zero or within safe limits.

Alarm Functions

The detector is equipped with configurable alarm setpoints. When gas concentration exceeds these thresholds, the following occurs:

- **Audible Alarm:** A distinct sound will be emitted from the device.
- **Visual Alarm:** The red alarm light on the side of the unit will illuminate and/or flash.
- **Signal Output:** The 4-20mA output signal will change, indicating an alarm condition to the connected control system.

Action upon Alarm: Immediately follow your facility's safety protocols for gas detection alarms. This typically involves evacuating the area, identifying the source of the leak, and initiating corrective measures.



Image: The Instrukart BH-60 Fixed Hexane Detector shown with a power adapter connected, illustrating its power input method.

MAINTENANCE

Regular maintenance ensures the continued accuracy and reliability of your BH-60 detector.

- **Routine Inspection:** Periodically inspect the detector for any physical damage, corrosion, or blockages to the sensor inlet. Keep the display clean for clear visibility.

- **Calibration:** Gas detectors require regular calibration to maintain accuracy. Refer to the full technical manual for detailed calibration procedures. It is recommended to calibrate the device at least once every 6-12 months, or as required by local regulations and operational conditions. Use certified calibration gases.
- **Sensor Replacement:** The sensor has a finite lifespan. If the detector consistently provides inaccurate readings, fails calibration, or indicates a sensor fault, the sensor may need replacement. Contact Instrukart support for sensor replacement services or guidance.
- **Cleaning:** Clean the exterior of the detector with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the casing or sensor.

TROUBLESHOOTING

This section addresses common issues you might encounter with the BH-60 detector.

Problem	Possible Cause	Solution
No display/No power	Power supply disconnected or faulty.	Check power connections. Ensure the power source is active. Verify power cable integrity.
Constant alarm (no gas present)	Sensor fault, calibration issue, or environmental interference.	Perform a fresh air calibration. If the problem persists, the sensor may be faulty or require professional service.
Inaccurate readings	Sensor contamination, expired sensor, or calibration drift.	Clean the sensor inlet. Perform calibration. If issues persist, consider sensor replacement.
No alarm when gas is present	Alarm setpoints too high, faulty alarm components, or sensor failure.	Verify alarm setpoints. Test alarm functionality (if applicable). Check sensor status. Contact support if necessary.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact Instrukart customer support.

SPECIFICATIONS

The following are the technical specifications for the Instrukart BH-60 Fixed Hexane Detector:

Brand	Instrukart
Model Number	IK-BH-60
Style	Fixed Gas Detector With Display
Power Source	Corded Electric
Product Dimensions (D x W x H)	15D x 10W x 12H Centimeters
Item Weight	0.8 Kilograms (800 g)
Number of Items	1
Country of Origin	India
Included Components	1 Unit of BH-60

WARRANTY AND SUPPORT

The Instrukart BH-60 Fixed Hexane Detector is manufactured by Instrukart. For warranty information, please refer to the

documentation provided with your purchase or contact Instrukart directly. Extended warranty plans may be available through third-party providers.

For technical support, service, or inquiries regarding calibration and sensor replacement, please contact Instrukart customer service. Ensure you have your model number (IK-BH-60) and purchase details available when contacting support.

Manufacturer: Instrukart

Packer: Plot 18, Street No: 1A, Czech Colony, Sanath Nagar, Hyderabad, Telangana 500018