
AccuProbe™ IR Leak Detector



Operation and Maintenance Manual

Model: 69320

Made in the USA
with Globally Sourced Parts

OPERATING INSTRUCTIONS

POWER ON: Turn on or off by long pressing the ON/OFF button. The power LED will illuminate green unless battery is low.

WARM-UP: During warm-up, the unit will beep slowly and the signal LEDs will continuously scroll from left to right until warm-up is complete. Warm-up time is 45 to 90 seconds.

SEARCH: Detector is ready for use when signal LEDs stop scrolling from left to right and a different beep rate can be heard.

If a leak is detected, the signal LEDs will illuminate from left to right and the beep rate will increase. The number of LEDs illuminated indicates the strength of the leak.

The default mode is Standard mode. In Standard mode, the detector automatically zeros to the background refrigerant. Once it zeros, the alarm will stop and it will only alarm to a higher concentration of refrigerant. To reset the zero point, hold the probe in clean air for a few seconds to allow the detector to re-zero.

ADJUSTING THE SENSITIVITY LEVELS:

Short press the ON/OFF button to toggle sensitivity from high to low. The HIGH or LOW LED will illuminate to indicate the current sensitivity setting. High is the default setting during power on.

MANUAL MODE: Short pressing the MODE button toggles between Standard mode and Manual mode. Manual mode is indicated by the 1st signal LED slow blinking and both HIGH and LOW LEDs being off.

In manual mode, if a leak is detected, the detector will alarm until the MODE button is long pressed. The HIGH and LOW LEDs will blink for 1 second to indicate the

detector is zeroing. At this point, the detector will only alarm if a high concentration of refrigerant is detected.

You can also reset the zero point in clean air by holding the detector in clean air and long pressing the MODE button again.

BATTERY AND CHARGING: The power LED will slow blink red when the battery is 10% or less. If the battery is depleted completely, the power LED will illuminate solid red and the unit will not operate.

To charge the unit, plug the supplied micro USB cable into an appropriate USB charging port per the input specifications (see specifications).

When charging, the power LED will slow blink green until fully charged, then remain solid green.

ERRORS: If the battery is above or below charge temperature, the unit will not charge and the power LED will alternate red and green. In this case, let the battery cool or warm up. The unit will charge once the battery is within the safe operating temperature.

Other faults or internal errors are indicated when all LEDs blink. Contact Ritchie Engineering Company, Inc. for service in this case.

FILTER REPLACEMENT: Accuprobe™ IR has an integrated filter and probe tip. To replace the filter/probe tip assembly, simply unscrew the probe tip and screw on the new filter/probe tip assembly. Do not attempt to clean the filter.

SENSOR/BATTERY REPLACEMENT:

The sensor and battery in Accuprobe™ IR are not field replaceable. For instrument service, contact Ritchie Engineering Company, Inc.

SPECIFICATIONS

- Sensor Type: Infrared
- Battery Type: Lithium Ion
- Charging Input Type: Micro USB
- Charging Time (starting at 0%): Approx 3 hours
- Battery Life: 8 hours
- Input Voltage: 5 V (dc) $\pm 5\%$
- Input Current: 1 A $\pm 5\%$
- Temperature Ranges and Humidity:
 - Storage: -20–60°C (-4–140°F)
 - Operating*: -20–50°C (-4–122°F)
 - Charging: 0–45°C (32–113°F)
 - Humidity: 95% RH NC maximum
- Altitude: 2000 m (6500 ft.)
- Pollution Degree: 2
- Overvoltage Category: 2
- Weight: 0.84 lb. (0.38 kg)

* Use below 0°C (32°F) should be limited



CAUTIONS

- Only use a certified charger/cord with an output of 5 V (dc) $\pm 5\%$, 1 A $\pm 5\%$
- Keep the device out of extremely high or low temperature locations
- Do not expose the battery to liquid
- Do not use the device if you notice any damage to the battery
- Do not disassemble or modify the battery
- Handle and dispose of the battery per local regulations
- If the recharging operation fails to complete, even when the specified recharging time has elapsed, immediately stop further recharging
- Do not leave the battery unattended while charging
- Unplug the charger when the battery is fully charged
- Improper use or disposal of lithium ion batteries can cause a fire
- This instrument is not intended for use in flammable environments

24 MONTH LIMITED WARRANTY

Ritchie Engineering Company, Inc. guarantees YELLOW JACKET® AccuProbe™ IR Leak Detectors to be free of defective material and workmanship that would affect the life of the product under normal use for the purpose for which it was designed. This warranty does not cover items that have been altered, abused, misused, improperly maintained or returned solely in need of field service maintenance. This warranty excludes the sensor, which has a one year warranty.

If found defective, we will upon compliance with the following instructions, credit, replace or repair at our option, the defective leak detector provided it is returned within 24 months of the date of sale. AccuProbe™ IR Leak Detectors have a date of manufacture serial number located on the label on the bottom of the unit.

Correction in the manner provided above shall constitute a fulfillment of all

liabilities with respect to the quality, material and workmanship of the product.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY, WHETHER WRITTEN, ORAL OR IMPLIED.

See www.yellowjacket.com to register your product or contact Customer Service for full warranty details.

Contact the Ritchie Engineering Customer Service Department:

Phone: (952) 943-1300 or
(800) 769-8370

Fax: (952) 943-1605 or
(800) 322-8684

E-mail: custserv@yellowjacket.com

You will receive personal help to determine if the problem can be solved without sending your leak detector to the factory and taking it out of service.

HOW TO OBTAIN SERVICE

Most returned AccuProbe™ IR Leak Detectors are merely in need of normal field service maintenance, such as making minor adjustments. In many instances, the information in this manual can save you the time and effort of returning your AccuProbe™ IR Leak Detector. If the information contained in this manual does not solve the problem, please call for service.

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