

# BRASCH

## REFRIGERANT LEAK TRANSMITTER



Model BGS-RF-TRNS

The BRASCH refrigerant leak transmitter provides an early warning of a refrigeration system leak. Most refrigerants are not considered toxic, but they can displace oxygen and create a hazardous condition. When a refrigerant is detected, the BGS-RF-TRNS will supply a proportional signal to a remote control system that will operate ventilation equipment keeping the area safe. The detector can be factory calibrated for a number of commonly used refrigerants.

### Key Features

- Microprocessor Controlled
- Protected Sensor
- Factory Calibrated
- Static Discharge Protection
- Low Voltage Wiring
- Corrosion Resistant Enclosure
- Complies with ASHRAE 15-1994
- Temperature Compensation
- Direct Connection to BMS or DDCS
- Internal LED Diagnostics

### Detectable Refrigerants

- R-11
- R-12
- R-22
- R-23
- R-113
- R-123
- R-134a
- R-141b
- R-142b
- R-152a
- R-500
- R-502

### Typical Installations

- Refrigerant Storage Areas
- Supermarket Walk-In Coolers
- Food Packing Plants
- Cold Storage Facilities
- Refrigeration Machinery Rooms

### Standard Output Options

- 4-20 mA Current Loop
- 0-1 VDC Output
- 0-5 VDC Output
- 0-10 VDC Output



## BGS-RF-TRNS REFRIGERANT LEAK TRANSMITTER

### Ratings

Input Voltage

24 VAC, 50/60 Hz. @ 28VA

Ambient Temperature Rating

Storage

-50°C to 120°C (-58°F to 248°F)

Operating

-15°C to 40°C (5°F to 104°F)

Humidity

10% to 90% (noncondensing)

### Enclosure

NEMA 1

Painted Steel

### Dimensions

Size

7 5/8" H x 9 1/4" W x 2 7/8" D

Weight

4 pounds

### Recognitions

ETL Listed

### Mounting

This unit can only be mounted indoors in a dry location at a height not greater than 5 feet above floor level. Since refrigerant vapors are heavier than air, this unit should be as close to the floor level as possible. Having this unit close to the source of the refrigerant would provide for early detection, and maintain an acceptable breathing level.

### Unit Operation

The Brasch Refrigerant Leak transmitter has been designed using state of the art components, which includes a micro-processor. This is essential to meet the growing demand for a reliable refrigerant leak detector. This detector has been designed to sense and respond to at least 12 different refrigerants. As the level of refrigerant increases, the proportional output level will increase. A Brasch remote control panel, energy management system,

variable speed drive, damper actuator or any remote indicator/controller can use this signal.

The proportional output signal is field selectable/changeable to 4-20 mADC, 0-1 VDC, 0-5 VDC or 0-10 VDC. The transmitter has an internal power LED and sensor failure LED. The combination of these LEDs is used to diagnose the operational condition of the unit.

**Brasch Manufacturing Co., Inc.**  
**11880 Dorsett Road Maryland Heights, Missouri 63043-9020**  
**314 - 291 - 0440 FAX 314 - 291 - 0646**  
**e mail: [brasch@braschmfg.com](mailto:brasch@braschmfg.com)**  
**Website: [www.braschmfg.com](http://www.braschmfg.com)**