



SLE-1001
IEI-1110

There is a better way to keep your refrigeration systems from losing their cool.



The situation:

Moisture

Refrigeration systems should have a means for checking moisture in the refrigerant.

This is especially essential for low temperature systems and systems using hermetic compressors. The hermetic compressor motor is exposed to the refrigerant gas. If the refrigerant contains excessive moisture, acid is produced which will cause the motor winding insulation to deteriorate, leading to motor failure. Moisture can also



lead to icing causing restrictions in valves and ports affecting system efficiencies. Knowing when to replace the refrigerant dryer cartridge is crucial to preventing catastrophic equipment damage. The device most commonly used for checking moisture in a refrigeration system is the moisture and liquid sight glass, which is easy to install and use.

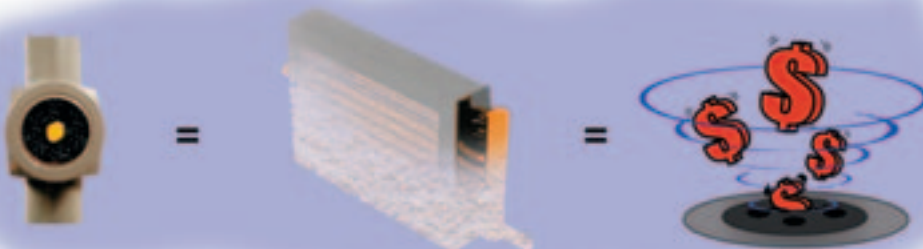


Low refrigerant

Every refrigeration system should have a means for checking sufficient refrigerant charge.

The device most commonly used is also the moisture and liquid sight glass. The sight glass is installed in the main liquid line. A properly installed sight glass shows bubbles when there is an insufficient charge and a full clear glass when there is

sufficient charge. The sight glass should be installed in the liquid line leaving the condenser or receiver prior to the evaporator. Knowing when to recharge the refrigerant is crucial to the system's efficiency.



The problem:

The moisture and liquid sight glass requires visual examination. Consequently, it can only be useful if it is consistently checked.



In today's hectic business environment, however, service techs don't have this luxury.

The solution:

FirstWatch Refrigerant Monitor — an eye that never blinks.

Now, KMC introduces a patented sight glass monitor which acts as a 24/7 service technician. It's called "FirstWatch." This optical device is an eye that never blinks. Like the sight glass itself, FirstWatch is economical, easy to install, and informative. This non-invasive device is accurate in reporting both

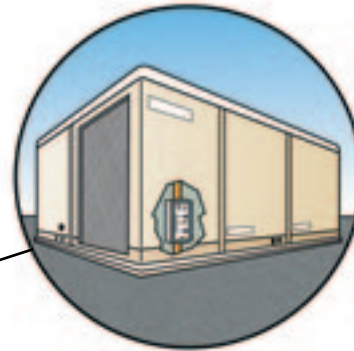


excess moisture and flash gas when used with the Sporlan See-All® sight glass. FirstWatch can tie into any existing building automation system. Or, for standalone or small box applications, use the optional Refrigeration Alarm Monitor.

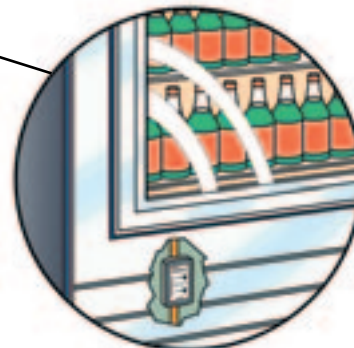


IEI-1110 Refrigeration Alarm Monitor

***Using FirstWatch
can protect your assets,
saving you money.***



SLE-1001 in Rooftop AC Units



SLE-1001 in Cooler/Freezer Units

Save money, save equipment, save the environment.



To order both products,
use model number SLE-1101.

SPECIFICATIONS

SLE-1001 FirstWatch

Power Supply: 24 VAC, +20/-15%, 50/60 Hz @ 1.5 VA

Outputs/Inputs:

- 0 to 5 VDC Flash GAS detection output
- 0 to 5 VDC Moisture detection output (Both outputs are KMDigital input compatible with pull-up resistor removed).

Display:

- Flash Gas detection pulses red more frequently with greater concentration of bubbles.
- Moisture detection glows yellow in proportion to the degree of the yellow in the moisture indicator.

Cable: 10', 4-Conductor, 22 AWG

- Black—24 VAC Phase
- White—Ground
- Red—Flash Gas
- Green—Moisture

Housing: Water and dust resistant Black flame retardant polymer UL 94-5V rated.

Dimensions: 3" x 2.5" x 1.5" (7.62 cm x 6.53 cm x 3.81 cm)

Ambient Limits:

Operating: 32°F to 140°F (0°C to 60°C)
Shipping: -40°F to 140°F (-40°C to 60°C)

IEI-1110 Refrigeration Alarm Monitor

24 VAC, +20/-15%, 50/60 Hz @ 1 VA

Outputs/Inputs:

- 0 to 5 VDC Flash GAS detection input
- 0 to 5 VDC Moisture detection input (Both inputs may be paralleled with KMDigital inputs)

Display:

- Power on, Flash Gas Alarm, Moisture Alarm Override,
- Flash Gas Alarm Audible,
- Moisture Alarm Audible, Flash Gas & Moisture Alarm Audible

Cable: 6', 4-Conductor, 22 AWG

- Black—24 VAC Phase
- White—Ground
- Red—Flash Gas
- Green—Moisture

6', black and blue override leads

- Black—Positive
- Blue—Common

Housing: Light Almond ABS, UL Flame Class 94HB

Dimensions: 2.75" x 4.5" x 0.875" (69.9 cm x 114.3 cm x 22.2 cm)

Ambient Limits:

Operating: 32°F to 140°F (0°C to 60°C)
Shipping: -40°F to 140°F (-40°C to 60°C)

is the U.S. Environmental Protection Agency's trademark of the Environmental Technology Verification Program. The Greenhouse Technology Center evaluated the performance of the SLE-1001. The Greenhouse Gas Technology Center (GHG Center) is one of six verification organizations under the program and is operated by the Southern Research Institute in cooperation with EPA's National Risk Management Laboratory. The Verification Statement can be obtained at www.epa.gov/etv or www.sri-rtp.com.

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