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IREF LITE

THE NEW IR TECHNOLOGY FROM N.E.T. IS SET TO REVOLUTIONIZE REFRIGERANT LEAK DETECTION WITH ASTONISHING PERFORMANCE/PRICE RATIO.



When it comes to refrigerant leak detection, the predominant sensing technologies are undoubtedly Non-Dispersive InfraRed (NDIR) and Metal-Oxide Semiconductor (MOS). NDIR is the most performing technology, but its cost has so far prevented a widespread use in light commercial and residential applications, where MOS has remained the predominant choice.

Although MOS requires periodic calibration (normally every 6 months or less) and substitution every 2 to 4 years, other than suffering from interference from many chemicals other than the target gas and from dependency from

environmental conditions, the affordable price has tipped the balance in its favor in settings like food retails, hotel rooms, apartments and offices.

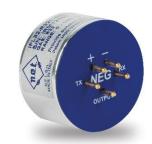
This is about to change with the new **IREF LITE** series from N.E.T. – a complete line of **NDIR** sensors for refrigerant gas leak detection, set to hit the market at an **astonishing price**.

This will make the **gas selectivity**, **accuracy**, **poison immunity** and **extended lifetime** of NDIR technology **affordable** for any setting, dramatically improving gas detection performances in the HVAC-R market, improving occupants' safety and **lowering cost-of-ownership**.

The IREF Lite series from N.E.T. include solutions for **R-32**, **R-1234yf** and **R-1234ze** in **%LEL** range. In 2019, the series will be extended to several other refrigerant gases in ppm range.

The analogue output provides a user-programmable threshold output consisting of different voltage levels – by default, 10% LEL=1V, 25% LEL=1.5V. The user can freely select the output level, the corresponding output and the hysteresis of the thresholds through Modbus RTU commands.

In fact, digital communication via **Modbus RTU** commands allows complete access to the sensor functioning parameters, diagnostics and periodic recalibration.



The **standard industrial 7-series size** and pinout fit existing detectors and is significantly smaller than most NDIR-based alternatives available.

In order to guarantee maximum safety, IREF LITE has been developed in order to meet **SIL1** requirements (SIL is a quantitively measurement of the ability of a system to carry out its safety function when called to do so).