

Why is Certification to Standard UL 2075 Important?

By Charles Gulotta

Having certification to UL 2075 for your carbon monoxide (CO) monitoring system and products is an extremely important safety, reliability and performance requirement! This is not a component recognition but a complete product assembly performance listing. To complete the testing to the UL standard and get an approval requires state-of-the art designs and higher levels of reliability and safety built into all aspects of the designs, components and circuitry of the products. Certification to UL standard is also a very important safety and performance distinction recognized in International Markets.

The certification process is an expensive, long, thorough and rigorous process. Product designers take great care to meet only the highest of US and International standards in their designs. Products certified to UL 2075 are new to the CO industry, as to date, most manufactures have been unable to achieve the certification to UL 2075 because of their products' old sensor technology, low tech designs, archaic components and lack of resources. This is much more than a component recognition or electrical safety. It is a complete product assembly performance listing.

Manufacturers and contractors using these antiquated products will often tell you that UL 2075 is not important or not required, but a review of the UL Test Criteria proves just how robust, thorough and important the certification really is. Insurance providers and more local city codes are requiring UL 2075 certification including Los Angeles and San Diego.

Furthermore, if a property owner ever found themselves in a health & safety litigation due to a CO incident, the defense lawyers would be able to point to the fact that the product they have installed was indeed

“... safety, reliability, and performance...local city codes are requiring UL 2075 certification...”

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| Calibration | Replacement Test, Head, and Cover |
| Selectivity | Jarring |
| Sensitivity Requirements | Flooding with Undiluted Gas |
| Electrical Supervision (General) | Operation in High and Low Ambient |
| Electrical Supervision (Component Failure) | Shipping and Storage |
| Electrical Supervision (External Wiring) | High Humidity (Non-Condensing) |
| Strain Relief | Low Humidity |
| Current Input | Abnormal Operation |
| Electrical Shock Current | Overload (Control Panel, Detector, Or Alarm) |
| Over Voltage | Overload (Separately Energized Circuits) |
| Under Voltage | Endurance |
| Dust | Power Supply |
| Static Discharge | Accelerated Air-Oven Aging |
| Leakage Current | Flame Test 2 |
| Supply Line (Hazardous Voltage) Transients | Class 2 and Class 3 Power-Limited Circuits 3 |
| Internally Induced Transient | Dielectric Voltage-Withstand |
| Extraneous Transient | Mechanical Strength Tests |
| Stability (General) | Corrosion |
| Stability (Air Velocity Variation) | Vibration |
| Stability (Pressure) | Audibility |
| Temperature | |




UL 2075 Test Criteria



Certified to the UL 2075 standard, which evidenced the fact that they did their “due diligence” and selected the safest of products available to install in their parking garage. The lawyers truly appreciate the certification to UL Standards as an added defense.

Although UL develops these safety standards they are not the only National Recognized Testing Laboratory (NRTL) recognized to perform the certification to the UL Standard. To be an NRTL, the laboratory has to be certified for the particular type of testing and have the proper equipment. They must perform the exact test in the same manner as UL would have done in their laboratory. To date only three NRTL labs are approved for UL 2075 testing. These labs are INTERTEK, CSA & UL.


The **3** Recognized NRTL
Certification Marks

		
INTERTEK	CSA	UL

INTERTEK	www.intertek.com
CSA	www.csa-international.org
UL	www.ul.com

The labels are issued by the laboratory having completed the testing. The laboratory’s mark is on the label and also the standard to which the product was tested.

The certification process is a continuing effort and requires quarterly visits by the laboratory to the manufacturing facility to insure the product continues to be built as tested. This insures that our customers always receive a quality product.

<p>PolyGard® Transmitter Carbon Monoxide 0-250 ppm ADT-03-1110-C-11XX1211A Client: SPC3-1112-200 US 24 VAC/DC / 0,2A Type: SM 12/02</p> <p>INTEC Controls, San Diego USA (888) 464-6832</p>	<p>www.msri.com electronic de</p>   <p>Intertek 4000518 CONFORMS UL STD 2075 www.inteccontrols.com</p>
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