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Technology 027: Liquid Leak Detector Sensor Film and Controller

The Liquid Leak Detection Sensor Film technology is an innovative and cost efficient liquid leak detection sensor film that can quickly and effectively identify liquid leaks. The proprietary technology uses a conductive silver nano ink on a polymer film with a flat band that can easily be placed on the ground, in server racks, around pipes and storage tanks. The system communicates via RFID and unlike cable detection systems, after an alarm the film can be wiped and reused.

Broad fluid detection applications:
- Beneath raised floors in IT data centers
- Wrapped around pipes in critical spaces (A/C systems)
- Applied to floors of wiring and IT closets
- For drip and condensation pans
- Lab or manufacturing environments

- Detects: water, chemical solutions, etc.
- Integrated RFID wireless communications, including wireless audible alarm
- Easy installation, can be cut to custom lengths for any application needs
- 1 mL fluid detection with very fast response times
- Film can be wiped off, clearing the alarm condition
- Highly robust and durable to industrial conditions including high traffic and compression
- Withstands accidental contact or compression limiting false alarms
- Flat film eliminates accidental tripping
- Adhesive backing allows the sensor film to be applied in diverse environments
- Flexible film easily handles curves & altitude changes

Online brochure: http://www.youtube.com/watch?v=ssMRhm998Bc
Product demonstration video: http://www.youtube.com/watch?v=B0KZEKD1-ig

Development Status

Yumin System Technology is a Korean company in business since 2004.
- The Liquid Leak Detection Sensor technology is in use at prominent Korean electronics mfgs..
- The technology won a major Korean award for Patent Innovation.
- Yumin ST was recently granted $1 million in seed funding for expanding into the U.S.
- Yumin ST has partnered with RF Code, an Austin, Texas-based RFID technology company to provide world class wireless communications solutions.

For more information, please contact **Valerie Hase**, IC² Institute, Global Commercialization Group of The University of Texas at Austin at (512) 797-7664 or vhase@ic2.utexas.edu.