

## **Sample Specification for Leak Pad Sensor Alarm (2852 LPS)**

The Leak Pad sensors shall be of a high frequency capacitance technology to monitor for the dielectric change between air and the leaked liquid.

Co-axial cable will run from the sensor pad to a pulse card mounted in close proximity to the sensing area and above the containment floor grade. A 2-conductor shielded cable will pulse the signal to the control unit that can be mounted up to 1 km distance. The sensor shall be of PVC, polycarbonate and marine grade epoxy wetted parts. There shall be no electronics at the sensor pad. Up to three sensor pads can be connected to one Pulse Card.

All calibration, power and control wiring shall be at the wall mounted Type 4X/IP65 control box. Power input shall be specified as 24vdc or 80-240 vac.

A time delay and sensitivity adjustment shall be standard to avoid nuisance alarms. The alarm relays shall be two SPDT, 10 amp dry contact. A minimum of 2 mm of leak level under the sensor will initiate the alarm. An RS-485 Modbus communication port will be standard.

An optional Intrinsic Barrier may be specified to make the sensor assembly Intrinsically Safe where applicable (Part. #A00071)

The system shall be the Model 2852-LPS and sensors as manufactured by Arjay Engineering Ltd., [www.ArjayEng.com](http://www.ArjayEng.com).