



Digistar Datasheet

General Description

The Digistar is a measurement pair of sensors allowing for the identification of magnitudes and vectors in inverted roof assemblies towards leak events.

Vector based detection system allows for flexible leak detection systems within the leak detection grid. Sensitivity can be increased by increasing grid density.

Measurements being performed while using the leak detection grid network for power allows for the Digistar to excel in applications where non uniform leak detection grid density is required due to unique curbs and details.

Performing differential voltage measurements between two orthogonal conductors permanently installed in a roof system allows for the ongoing assessment of a roof in both passive and actively monitored applications with a simple upgrade procedure from passive to actively monitored in real time.

This system requires a series of strategically placed guard circuits required to energize the area resulting in current flow into the breach as well as to negate natural grounds such as drains and building walls.

Features

- Durable FR4 material
- Flat profile allows for deployment under inverted assemblies
- Large measurement conductors
- Gold plated conductors for use in inverted roofing applications
- Large operating temperature range
- Weatherproof cabling





Functional Specifications

Electrical Characteristics

Operating Voltage (with SMT WiDAQ)	0V to 3VDC
Maximum Voltage	24VDC
ensing Element	ENIG – 4 Electroless Nickel Immersion Gold

Environmental

Operating Temperature	-40° to 50°C / -40° to 122°F
Application Temperature	-10° to 40°C / 14° to 104°F
Storage Temperature	-40° to 50°C / -40° to 122°F
Storage Humidity	30% to 70% RH

Physical

Tape Width	20 mm / 0.8"
Sensor Thickness	Arms - 0.6 mm / 0.025" Connection Point – 5mm / .19"
Full Sensor Footprint	498mmx498mm / 19.6" x 19/6"

Approvals/Regulatory

Flammability Rating	In Test
---------------------	---------

Specifications are subject to change without notice