



STAR® ZoneScan

CORRELATED ACOUSTIC LEAK DETECTION SYSTEM

Find and fix leaks fast with the Aclara STAR ZoneScan leak-detection system. The industry's only remotely correlated acoustic leak-detection system cost-effectively identifies small leaks before they become major problems.

The system combines acoustic data loggers from Gutermann International with Aclara STAR Network technology to provide fully integrated leak detection through fixed-network advanced metering infrastructure (AMI). Time-synchronized sound recordings are initiated through the STAR ZoneScan meter transmission unit (MTU), which sends the resulting data back through fixed-network infrastructure to the utility for presentation. Web-based application software correlates the data between loggers and provides visual identification of high probability leak locations.



STAR ZoneScan system benefits

Pinpoint accuracy

Identify precise leak locations with correlated, time-synchronized sound recordings.

Hands-off operation

Perform automated data collection with minimal attention by operators.

Added value

Add leak detection easily to two-way STAR Network AMI systems.

Installation flexibility

Implement permanent or "lift and shift" deployment.

Conservation

Enhance efforts by containing leaks and water loss.

Built for extreme conditions

Environmentally sealed MTU prevents damage caused by water or snow.

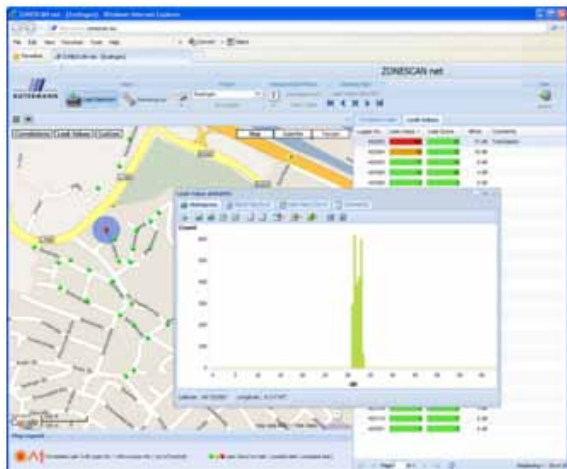
Material compatibility

Works on pipes made of a range of materials including metal, concrete and non-metallic types.

System Components

The STAR ZoneScan leak-detection system includes:

- Gutermann model 820 acoustic logger with watertight connector cable
- Circular, 7-1/4" diameter non-metallic lid
- STAR ZoneScan software module
- Gutermann software license



Specifications

Network Type	Two-way ¹ STAR Network
Transmit/receive frequency	450-470 MHz, FCC licensed ²
Antenna	Internal
Cable length	Six feet with watertight connector
Amplitude measurement duration	Two hours (default)
Correlation recording duration	One 12-second recording (default)
Data transmission	Once per day
MTU battery life	Five years ³
Physical dimensions	MTU diameter 5-1/8 inch; Lid diameter 7-1/4 inch
Operating temp range	-30°C to +70°C
Operating humidity	0- 100 percent condensing
Transmit power	0.25 W
Approvals	FCC part 90
Network compatibility	Aclara DCU IIJ/NCC v7.3.4 or higher with STAR ZoneScan software module
Handheld interface	Windows Mobile handheld

Notes:

1: Two-way communication is required for time synchronization.

2: A dedicated frequency is recommended for STAR ZoneScan.

3: MTU battery life is stated at default settings. Refer to STAR ZoneScan MTU warranty for details.

Specifications are subject to change without notice.