

## Aclara RF ZoneScan II Correlated Acoustic Leak Detection System



Find and fix leaks fast with the Aclara ZoneScan II leak-detection system. The industry's leading, remotely correlated acoustic leakdetection system cost-effectively identities small leaks before they become major problems, and will give you immediate insight into nonrevenue water losses in your water distribution network.

### OVERVIEW

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

#### FEATURES AND 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 Aclara RF Network AMI systems
- **Software and Analytics:** Intuitive software with built-in leak detection and correlation algorithms identify and display leaks and can push notifications to key personnel
- **Easy Installation:** Fitting in valve stacks, the ZoneScan II endpoint installs quickly in the field and is setup remotely from Aclara's head-end software
- **Rugged and reliable:** Boasting a battery lifetime greater than 8 years and a fully encapsulated design, the ZoneScan II endpoint will operate maintenance free its entire lifetime
- **High Performance:** Excellent RF performance makes the ZoneScan II suitable for adding to any Aclara RF deployment
- **System-wide Correlation:** All MTUs are tightly time synchronized to each other allowing accurate correlation between all MTUs in the system
- Advanced Diagnostics: Regular self-diagnostics and health-check reporting keeps the ZoneScan II operating at peak performance and quickly notifies operators of any issues
- Pipe Material Compatibility: The ZoneScan II system works with pipes made of a range of materials including metal, concrete, and non-metallic types







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## MTU SPECIFICATIONS

Network type	Two-way <sup>1</sup>
Transmit/receive frequency	450-470 MHz (FCC licensed)
Installation locations	Standard valve stacks
Battery life	8 years <sup>2,4</sup>
End point to end point synchronization	< 1 millisecond difference
Physical characteristics	2.8"w x 5.5"h x 1.8" d; 1.5 lb; color: black
Operating temperature range	-40°C to +70°C
Operating humidity	0%-100% non-condensing, IP68 rated
Storage temperature range	-40°C to +85°C
Approvals	FCC part 90; Industry Canada RSS-119
Warranty	8 years <sup>3,4</sup>
Network topology	Aclara RF Network (point to multi-point)
Network compatibility	Aclara DCU II or better
Software requirements	AclaraONE <sup>™</sup> head-end and sensor module

<sup>1</sup>Two-way communication for on-demand reads, remote configuration, and firmware over the air

<sup>2</sup>Battery life is stated at default settings of recordings performed once per day for 12 seconds and transmitted once per day

<sup>3</sup>Refer to Aclara standard warranty for details

<sup>4</sup>Battery life warranty invalid if MTU stored more than 1 year before installation and activation

Specifications are subject to change without notice.

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