

## **ACCUSONIC MODEL 7510 MULTIPLE-PATH COMPOUND TRANSIT-TIME FLOWMETER**

The Accusonic Model 7510 Flowmeter is designed for accurate, reliable flow measurement in full pipes, open channels, and gravity-flow pipes flowing partially full through surcharged.

The Model 7510 provides multiple pipe/channel flow monitoring and can accommodate a total of 8 acoustic paths in up to 4 separate metering sections. The high flowrate measurement accuracy, flexible configurations, and reliable performance under challenging flow monitoring conditions has resulted in widespread use for the Model 7510 for water, wastewater, and sewerage collection systems applications.

When used for open-channel applications or in pipes/conduits flowing partially full, the Model 7510 measures average flow velocity across the flow profile at the level of each acoustic path, and water level (stage) is also measured and tracked as part of the flowrate calculation. The measured data acquired from the submerged acoustic paths are used for flowrate determination, along with the stage measurement and cross-section geometry of the pipe or channel.

Model 7510 setup, checkout, operation, and data display is accomplished with an easy-to-use keypad/display terminal or with a user's PC-type computer interfaced to the unit's RS-232 serial digital communications port. Easy to use Windows<sup>®</sup>-based *AccuFlow*<sup>®</sup> software may be utilized on-site with portable PC or remotely via modem connection for interfacing with the Model 7510 Flowmeter for operational setup, downloading of recorded flow data, and acoustic signal performance evaluation.

In the single-pipe measurement configuration, the Model 7510 Flowmeter supports multiple-path flow measurement using up to eight acoustic paths and two inputs for stage level (water depth) in the measurement section. It is possible for pairs of paths in a section to be configured as symmetrically crossed paths to correct for potential cross-flow measurement errors, such as occur in flow velocity profiles located near to bends or other obstructions which may disrupt the velocity profile aligned with the pipe axis.

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*Sleeve installation in sewer. Transducers are pre-mounted on sleeve*  
Model 7510 Multiple-Path Compound Transit-Time Flowmeter