Accusonic, a division of ADS LLC, designs and manufactures multi-path transit-time flow measurement systems which are renowned for their precise accuracy and reliability in difficult operating environments. Accusonic flowmeters can be found in hydroelectric and thermal power plants, water and wastewater treatment facilities, sewage collection systems, and other types of water conveyance pipelines and channels. Since 1967, Accusonic has installed thousands of systems worldwide, and offers a full range of services including installation and startup, system verification, turbine performance testing services, and field training.

Accusonic offers a wide range of flowmeter transducers to address the diverse application requirements of numerous industries. This broad offering allows Accusonic to provide the most appropriate transducer for each application.

With this ability, Accusonic flowmeters can achieve the best possible performance even under adverse installation and hydraulic conditions.

- Buried Pipes
- Exposed Pipes
- Open Channels
- Metal/Concrete/Plastic Walls

*Accusonic is Setting the Standard™*
Below are descriptions of Accusonic's line of acoustic flow transducers. To select a transducer type for a specific application, please contact Accusonic directly for recommendations. In addition to the transducers listed below, other application-specific transducer designs are available. Detailed specification sheets for each transducer type can be found at [www.accusonic.com](http://www.accusonic.com).

### PIPELINES

**7600 / 7601 Fully Removable Feedthrough**
The Models 7600/7601 feedthrough-type transducers are used for exposed pipelines and are completely removable without dewatering the pipe. The transducers are stainless steel or PVC and are used with Model 7660 or 7641 stainless steel feedthrough assemblies. The 7600 is rated to 1500 psi (103 bar); the 7601 is rated to 450 psi (31 bar). No welding is required for this installation.

**7605 / 7625 Fixed Window Feedthrough**
The Models 7605/7625, window-type feedthrough transducers are used for exposed pipelines. The transducer element is removable for servicing from outside the pipe, though the window is permanently fixed. The stainless steel Model 7605 is rated to 2000 psi (138 bar); the lower cost Delrin® 7625 is rated to 500 psi (34.5 bar). No welding is required for feedthrough installation.

**7657 / 7658 / 7630 / 7634 Internal Mount**
The Models 7630/7634 and 7657/7658 are internal-mount transducers designed for installation in buried or encased pipes. The cable from each transducer is brought through conduit to a penetration assembly which can be located in a small area of exposed pipe. With Model 7630/7634 transducers, each assembly incorporates two transducer elements, two connectors and two cables, thereby providing complete redundancy for hard-to-access locations. Transducer mounts can be bolted or welded to the pipe walls, making them suitable for steel or concrete pipes.

**7600 / 7601 Cold Tap**
The Models 7600/7601 transducers are used with Model 7664 or 7662 weld-on feedthrough assemblies. When pipes can be dewatered for installation, but access to the inside is not available, the Model 7600 and 7601 transducers are fully removable after installation.

**7601P Hot Tap**
The Model 7601P transducer with Model 7647 Corporation-Stop assembly may be utilized as a “drill and tap” installation up to approximately 200 psi (14 bar) maximum pipeline pressure. When pipes cannot be dewatered, an integral ball-valve allows removal of transducer under pressure with positive pressure seal. The Model 7601P transducer is certified for use in hazardous area locations.

**7620 / 7622 Small Pipe**
The Model 7620/7622 transducer is installed in a spool piece section fabricated with access fittings. These are usually used in pipes less than 24 inches (600mm) in diameter or width. Model 7622 transducers with Model 7665 valved feedthrough, are also available for small pipe installations. In small pipes, it may be necessary to
HAZARDOUS AREAS/SEWERS/CSOs

7657 / 7658 Intrinsically Safe Low-Profile Internal Mount
The Models 7657/7658 transducers are certified for use in hazardous area locations. These transducers are ideal for installation in sewer lines and present a low profile when used with the rugged Model 7697 or 7698 mounts. The Model 7657/7658 transducers are also well suited for non-hazardous locations where low profile mounts are desirable.

7656 Fully Removable Feedthrough
The Models 7656 transducers can be inserted through Model 7655 feedthrough assemblies for installation in pipes with concrete or steel walls. The Model 7656 transducers are certified for use in hazardous area locations and are typically recommended for pipes or channels larger than 3 ft. (1m) in diameter or width.

Sleeve and Plate Arrays
Many of Accusonic’s transducers can be pre-mounted onto permanent or sliding plates. These configurations reduce installation time and expense. The sliding plate arrays are useful for vertical wall or trapezoidal channels, as they allow for easy servicing without dewatering or entering the channel. Sleeve inserts are used in smaller collection system lines where installation time in the sewer must be kept to a minimum.

CHANNELS/RECTANGULAR CONDUITS

7616 / 7656 / 7658 Surface Mount
The Models 7616/7656/7658 transducers are used in rectangular and trapezoidal channels. They are usually mounted in prefabricated arrays or on sliding plates secured to the channel wall.

7618 Fully Adjustable
The Model 7618 transducers are used in vertical wall channels or intakes such as those found at low head hydro plants. The transducer element rests like an eyeball within the impact-resistant 7696 mount. The eyeball design allows easy alignment of the transducer regardless of wall shape. The line of Model 7618’s are usually mounted in arrays with integral conduit protection.

RIVERS

7612 Long Path Length
The Model 7612 transducers are used in large channels, canals and river applications. Its 200kHz frequency is well suited for path lengths up to 500 feet (150 meters).
Accusonic takes great pride in its ability to provide superior performing flow measurement systems and services to a diverse range of industries, and on the most difficult applications. We are recognized as a leader in the supply and service of multi-path transit-time flowmeters for the largest pipes and channels in the world.

To learn more about Accusonic’s flow measurement products and services, please visit us at [www.accusonic.com](http://www.accusonic.com).