

Model 7601P/7647 Feedthrough Transducer Assembly

About Accusonic

Accusonic, a brand 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.



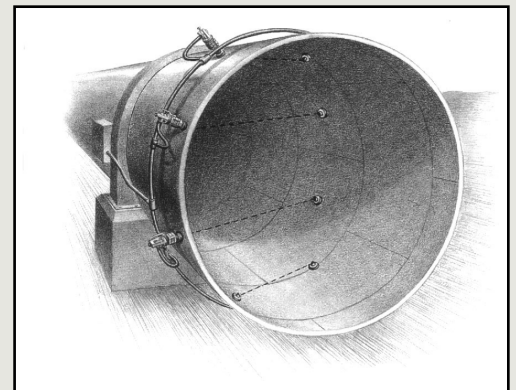
Model 7601P Transducer and Model 7647 Corporation Stop Assembly

The Model 7601P is a PVC transducer designed for use with the Model 7647 Corporation Stop feedthrough assembly on low to medium pressure, indoor or outdoor pipe applications. The 7601P/7647 assembly is designed for installation through the pipe wall, and can be directly tapped into dewatered pipes or installed on pressurized pipes using a hot tapping machine.

The Model 7647 contains a 1-in. (25 mm) bronze Corporation Stop assembly with ball valve, which allows for complete removal of the 7601P Transducer for repair, replacement, or cleaning without dewatering the pipeline.

The Model 7601P/7647 is ideal for use on ductile iron or steel pipes with pipe walls ranging from 3/8 in. to 1 in. (9.5 mm to 25.4 mm) thick. The assembly is also well-suited for small pipes and pipelines with no internal access.

The Model 7601P Transducer is certified for intrinsically safe installations in NEC Class I, Divisions 1 & 2, Groups C & D locations, and ATEX requirements for Zones 0 & 1 locations, when used with approved Accusonic flowmeter consoles.



Typical 4-path installation of Model 7601P/7647 Transducer Assembly

The Model 7648 Jacking Mechanism is required for removal or insertion of the 7601P Transducer under pressurized conditions.

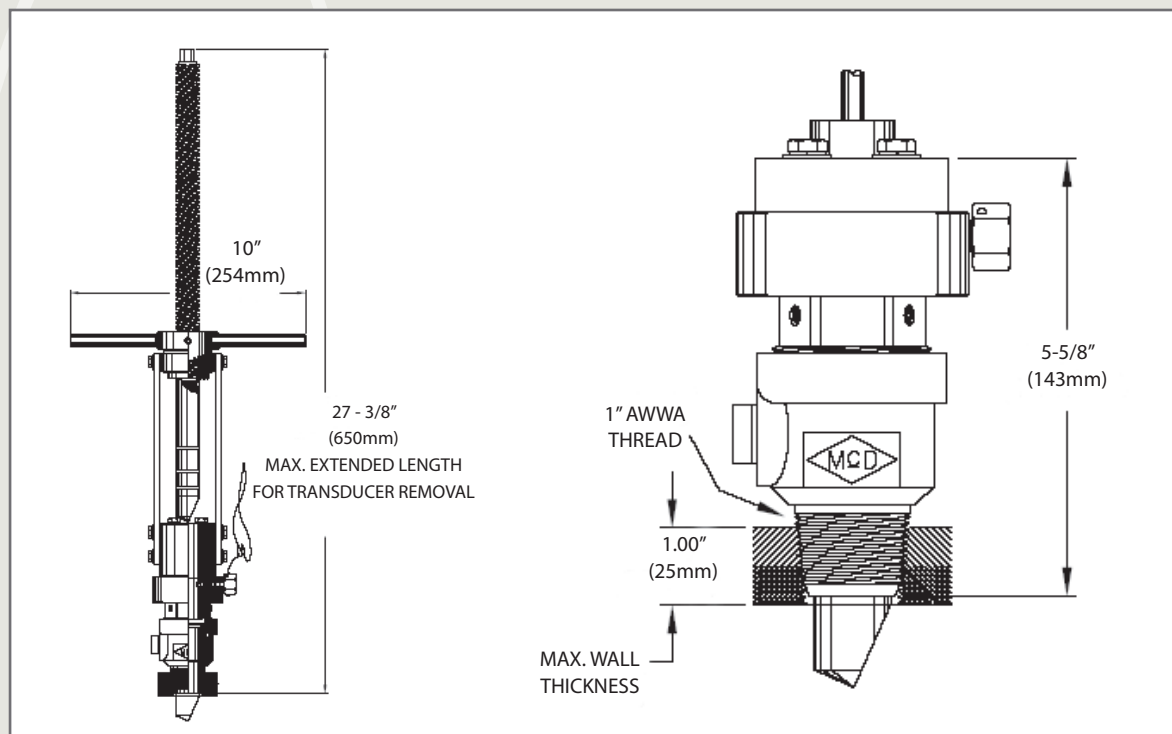
DESIGN SPECIFICATIONS

Operating Frequency:	1 MHz
Pipe Diameter Range:	1.5 to 24 ft. (0.5 to 7.5 meters)
Maximum Service Pressure:	250 psi (17 bar)
Temperature Limits:	32 to 122 F (0 to 50 C) Operating 14 to 122 F (-10 to 50 C) Storage
Construction Material:	PVC (transducer) and Bronze (assembly)
Hazardous Location Rating:	Certified for intrinsically safe installations in NEC Class I, Divisions 1 & 2, Groups C & D locations, and ATEX requirements for Zones 0 & 1 locations, when used with approved Accusonic flowmeter consoles. NOTE: Not approved where the vapors of ketones or esters are present.

DIMENSIONAL DATA

Feedthrough Hole Diameter:	1 in. (25 mm) AWWA Thread
Minimum Pipe Wall Thickness:	3/8 in. (10 mm) iron or steel
Maximum Pipe Wall Thickness:	1 in. (26 mm) including mortar lining, etc. <i>Modified systems are available for thicker pipe wall applications - Contact Accusonic with pipe dimensions.</i>
Clearance Required for Transducer Removal/Replacement:	30 in. (760 mm) Using Model 7648-HT Jacking Mechanism
Clearance Required for Tapping Tool:	54 in. (1,400 mm) Radial clearance from outer pipe wall

Contact Accusonic for information on transducers recommended for specialized applications.



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