

ACCUSONIC®

Model 7601P Transducer



Model 7601P Feedthrough Transducer Assembly

The Model 7601P is a PVC transducer designed for use with the Model 7647 Brass 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 is a 1-in. (25 mm) bronze corporation stop assembly which has an integrated ball valve. When used in conjunction with the Model 7648 Jacking Tool, the 7601P transducer can be removed safely without having to dewater 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.

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.

Unique Features

Flexibility: Can be removed or reinserted without de-watering or shut down of system

Accuracy: Provides the highest level of accuracy & repeatability, even in the harshest conditions & environments

Economy: All ACCUSONIC flowmeter controllers & transducers are backwards compatible, reducing upgrade costs and saving time



*2x2 Path Hot-Tap Installation
Model 7601P Transducer Assembly*



Model 7601P Transducer

DESIGN SPECIFICATIONS

Operational Frequency 1 MHz

Pipe Diameter Range 1.5 to 24 ft. (0.5 to 7.5 meters)

Maximum Operating Pressure 250 psi (17 bar)

Temperature Limits Operating: 32° to 122° F (0° to 50° C)
Storage: 14° to 122° F (-10° to 50° C)

Construction Material PVC (transducer) and Bronze (feedthrough)

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

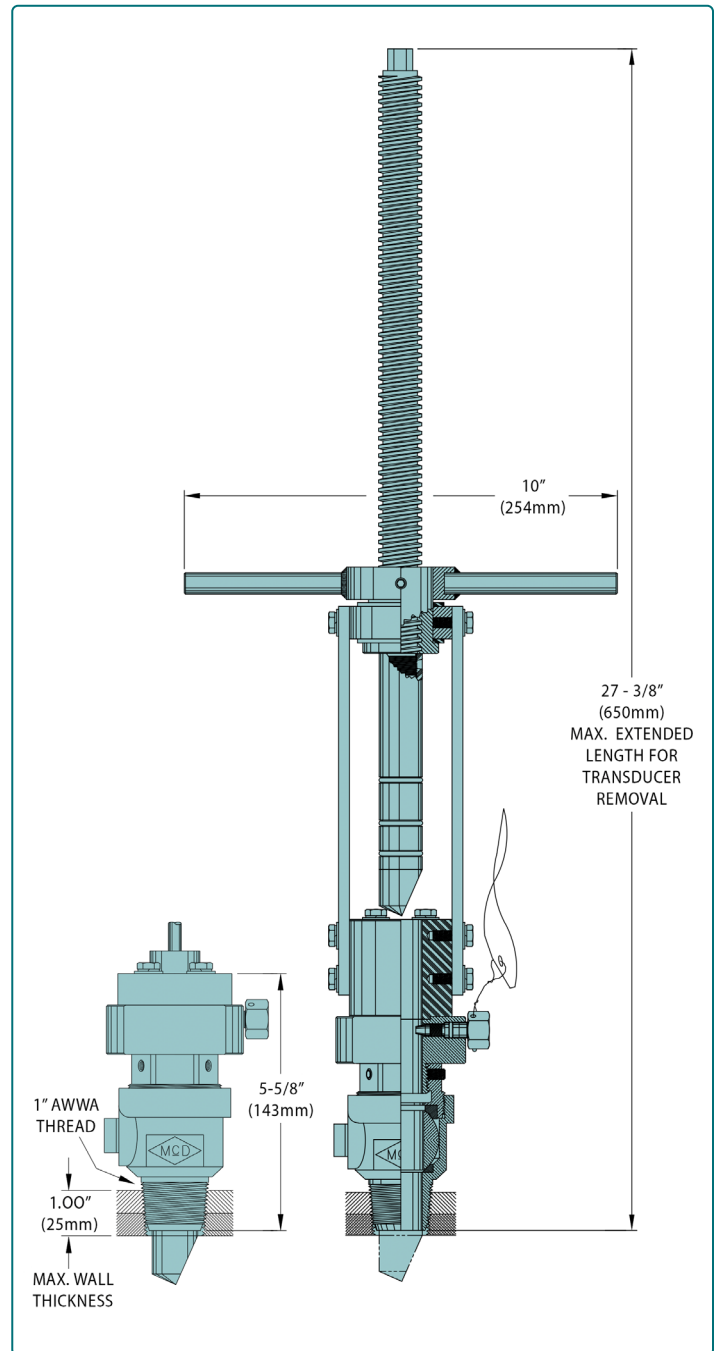
Feedthrough Hole Diameter 1 in. (25 mm) AWWA Thread

Minimum Pipe Wall Thickness 3/8 in. (10 mm) iron or steel

Maximum Pipe Wall Thickness 1 in. (26 mm) including mortar lining*
*Contact ACCUSONIC for thicker pipe walls

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



Left: 7601P Transducer & Model 7647 Assembly
Right: Model 7648 Jacking Tool

**Contact ACCUSONIC for more information
and solutions for your flow metering applications.**

Learn more about ACCUSONIC at www.ACCUSONIC.com
Call: +1(256)430-3366 Email: accusonicsales@idexcorp.com

ACCUSONIC
is a brand of **ADS**