



Badger Meter

BadgerTouch®

**Automated Meter Reading System Pit Module
Model E-SERIESBT and HREBT**

DESCRIPTION

Applications: The BadgerTouch® Pit Module with Twist Tight® connector for connectivity with a next generation E-Series® G2 Ultrasonic meter or High Resolution Encoder (HR-E®) is a complete electronically encoded close-proximity automated meter reading system, specifically designed for pit meter installations. This system can be used with E-Series G2 Ultrasonic meters, and with the HR-E encoder for use with all Recordall® Disc, Turbo, Compound, Combo and Fire Series meters and assemblies. The Pit Module is designed to fit pit lid configurations up to 2 inches thick.

Communication: Communication is accomplished by using compatible reading devices programmed to read BadgerTouch or Industry Standard ASCII protocols, such as the VersaProbe® reading wands, to interrogate the BadgerTouch Pit Module. The Pit Module responds with its serial number and water meter reading, and transmits data in approximately 2.5 seconds. In the event a tamper condition exists, the data collector will not receive a reading.

Performance: The BadgerTouch automated meter reading system offers superior operating performance in pit applications and is designed for totally submerged environments. The Pit Module allows readings under many conditions where ice, sand or dirt may impede direct contact with the read pad. For consistent results, interrogation equipment should be placed in direct contact with the pit read pad.

Meter Reading Validation: Further validation of the meter reading can be made automatically by the data collector based on comparison of high-low audit fields in the record. If the meter reading is not between these predetermined limits, an error message is displayed on the data collector display.

Wire Connections: The BadgerTouch Pit Module is available with a Twist Tight connector for easy connection and installation in the field to an E-Series G2 Ultrasonic meter or HR-E encoder.

Construction: The BadgerTouch Pit Module is constructed from high impact plastic material that is designed for mounting directly through the pit lid. There is a plastic cover that locks the Pit Module in place. Inside the pit, an integral plastic locking nut is used to secure the Module firmly in place next to the pit lid. All electronic components internal to the enclosure are encapsulated to provide environmental protection.



SPECIFICATIONS

Product Compatibility	E-Series G2 Ultrasonic meter; HR-E High Resolution Encoder
Operating Temperature	-5...120° F (-21...49° C)
Storage Temperature	-5...120° F (-21...49° C)
Humidity	0...100% Condensing
Construction	High impact plastic pit lid nut, adjustment nut, and encapsulated read coil within the plastic Pit Module.
Dimensions	3.30 in. (84 mm) Height (w/o coil) 3.96 in. (101 mm) Width (at top)
Weight	7 ounces (Module only)

Also see ["Configurations" on page 2.](#)

CONFIGURATIONS

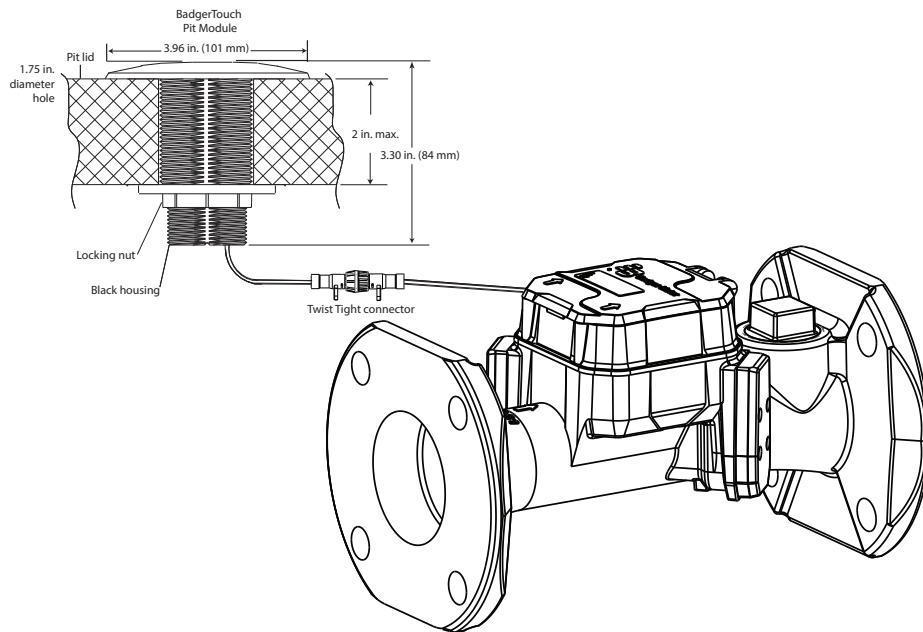


Figure 1: BadgerTouch Pit Module connected to E-Series G2 Ultrasonic meter

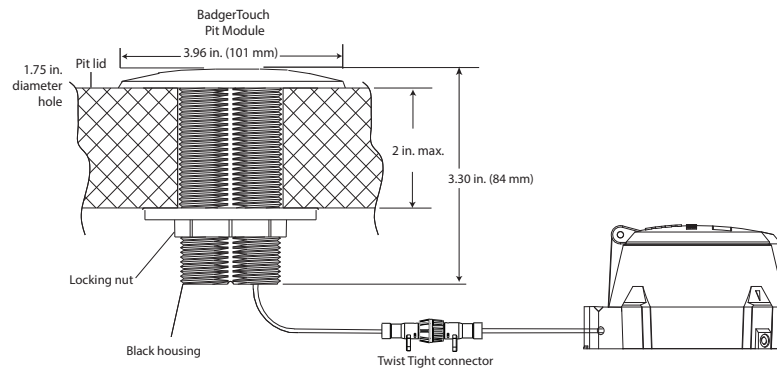


Figure 2: BadgerTouch Pit Module connected to the HR-E encoder

SMART WATER IS BADGER METER

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