BadgerTouch™ Automated Meter Reading System

BadgerTouch™ Pit Module

Technical Brief

DESCRIPTION

APPLICATIONS: The Badger Meter BadgerTouch™ Single Pit Module factory prewired to the Absolute Digital Encoder (ADE™), is a complete electronically encoded close-proximity automated meter reading system, specifically designed for single pit meter installations. This system can be used with all Badger Meter Recordall Disc, Turbo Series and Compound meters available today and 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 Sensus™ protocols, such as the VersaProbe™ or Metre Pro's™ reading wands, to interrogate the BadgerTouch pit module. The pit module responds with its serial number, 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 Badger Meter 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 remote 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 Single Pit Module is factory prewired to the ADE and does \underline{not} require additional wiring in the field.

CONSTRUCTION: The Badger Meter 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, a plastic locking nut is used to fit the module firmly in place next to the pit lid. All electronic components internal to the enclosure are encapsulated to provide environmental protection. The Absolute Digital Encoder (ADE) provides permanent glass/metal packaging in a plastic shroud and lid for long lasting, highly reliable encoded meter reading information.

LICENSE REQUIREMENTS: This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes made by the user not approved by Badger Meter can void the user's authority to operate the equipment. No license is required by the utility to operate a BadgerTouch meter reading system.



SPECIFICATIONS

Temperature:

Operating -5° F to +120° F (-20 ° C to +49° C)

Storage -5° F to +120° F (-20 ° C to +49° C)

Humidity 0% to 100% Condensing

Construction High impact plastic pit lid nut, adjustment nut,

and encapsulated read coil within the plastic pit module. The ADE is constructed of a permanently sealed glass and copper design.

Hardware Noncorrosive tamper resistant TORX® seal

screw mounted on ADE shroud (optional seal

screw available)

Weight 15 ounces (module and ADE)

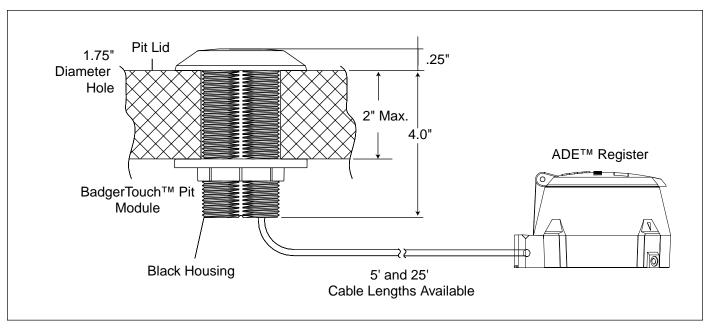


FIGURE 1. BADGERTOUCH™ SINGLE PIT PREWIRED CONFIGURATION

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Please see our website at **www.badgermeter.com** for specific contacts.

Due to continuous research, product improvements and enhancements, Badger Meter reserves the right to change product or system specifications without notice, except to the extent an outstanding bid obligation exists.



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