BadgerTouch™ Automated Meter Reading System

BadgerTouch™ Remote Module

Technical Brief

DESCRIPTION

APPLICATIONS: The BadgerTouch™ Single Remote Module coupled with the Absolute Digital Encoder (ADE™) is a complete electronically encoded close-proximity automated meter reading system, specifically designed for single point remote meter installations. This system can be used with all Badger Meter Recordall Disc, Turbo Series, and Compound meters available today.

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 remote module. The remote 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 operating performance in a variety of applications under most climatic conditions. 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 Remote Module can be installed in new or existing installations where remote meter reading is required. The remote module is connected to the recommended wire that runs between the module and the ADE. A set of terminal screws on the remote module makes this connection. The ADE is provided prewired with either a 3', 6', 10' 15' or 25' length of wire that is ready for connection in existing installations. Please see figure 1 for more information on connections. To provide best results, a maximum of 75 feet of wire (Belden #9770) between the remote module and the ADE is allowed. Other wire types may also affect performance. If an additional length of wire is used in addition to that provided with the ADE, a set of gel splices must be made.

CONSTRUCTION: The Badger Meter BadgerTouch remote module enclosure is constructed of a high impact plastic enclosure designed for most remote locations. All internal electronic components are encapsulated to provide environmental protection. The ADE provides permanent glass/metal packaging in a plastic shroud and lid for long lasting, highly reliable encoded meter reading information collection.

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

Ultraviolet Remote enclosure is UV protected for outdoor

installation

Construction The remote module has a high impact weather

proof plastic enclosure containing encapsulated electronics and reading coil. The ADE is constructed of a permanently sealed glass and

copper design.

Hardware Two terminal screws for connecting the ADE

lead wire to the remote module

Noncorrosive tamper resistant TORX® seal screw mounted on ADE shroud and remote

housing (optional seal screw available)

Weight 6 ounces (not including the ADE)

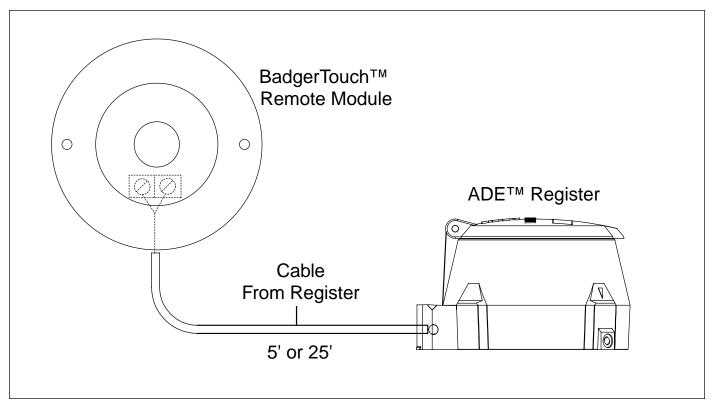


FIGURE 1. BADGERTOUCH™ SINGLE REMOTE CONFIGURATION

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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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