1320 Research Park Drive
Manhattan, KS 66502
785-564-6700
www. agriculture.ks.gov

Kansas
Department of Agriculture

900 SW Jackson, Room 456
Topeka, KS 66612
785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

June 28, 2024

Todd Paul
Badger Meter, Inc.
8635 Washington Ave
Racine, WI 53406-1580

Dear Mr. Paul,

I am pleased to inform you that the galvanized steel, pull-tight cables, as described in the attached document, will be acceptable wherever a manufacturer approved tamper-evident seal for Badger water flowmeters is required by the chief engineer.

Any questions regarding this matter should be directed to David Engelhaupt, david.engelhaupt@ks.gov, 785-564-6680.

Sincerely yours,

Earl D. Lewis, Jr., P.E.
Chief Engineer

Pc:

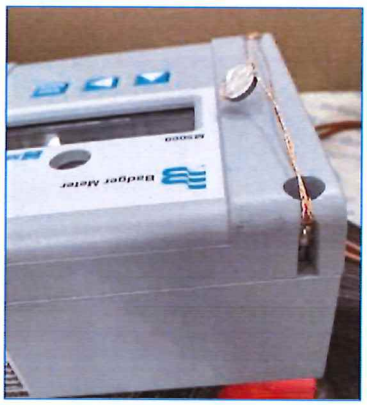
Topeka Field Office
Stafford Field Office
Stockton Field Office
Garden City Field Office

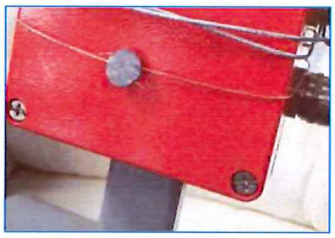
Tamper-Proof Change Proposal

Clarke Steppe

Badger Meter

Current tamper-proof option utilizes lead sealing block and copper cable for both transmitter and junction box.



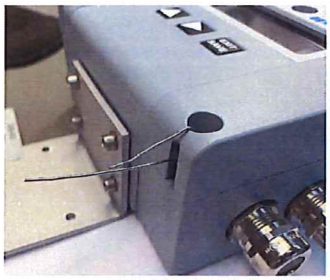


For compact-mount and remote-mount options, the detector currently uses a copper wire wrapped through two of the bolt clearance holes and hinge features, with a lead press-seal used to lock the cable together.

For the remote-mount junction box, it uses the same technology however the wire is wrapped around the box between the two cables.

Badger Meter is trying to obsolete this method due to the handling and storage of lead.

Transmitter enclosure to utilize two tamper-proof screws in opposite corners with locking cables.

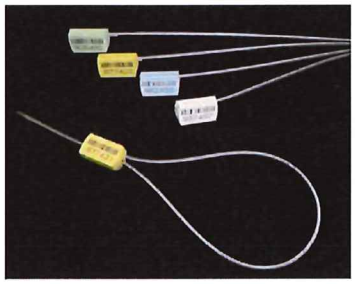


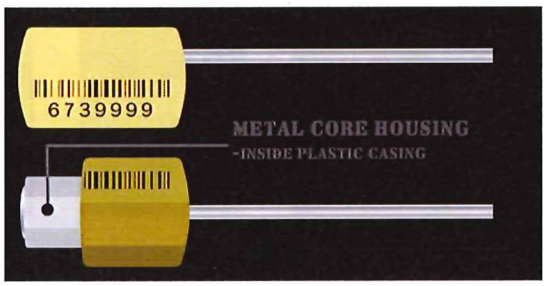
The current solution proposal for the transmitter is to use two specialized screws that have crossed holes drilled through the head. These screws would be mounted in opposite corners of the enclosure. A stainless-steel locking cable would thread through the screw head and lid hinge feature and would be locked off, preventing the screw from being able to be removed unless the cables are destroyed.

Utilizing two cables in opposite corners will prevent the lid from being able to be partially removed.

The cable shown in the left image is a reference of how it will be threaded through the enclosure. The following sheet has the proposed cable.

Galvanized steel, pull-tight cable would replace lead press-block and copper cable.





15 January 2024 | © Badger Meter, Inc | Confidential

The shown pull-tight cables are galvanized steel cable fixtured to a metal core over a plastic casing. One end of the cable is fixed in the housing at the cable vendor during manufacturing, while the second end of the cable is pulled through a hole in the center of the metal core, which engages the locking mechanisms.

Any additional cable length would be cut down to reduce excess material.