

**Series 800 -
Set-Point Controller**

**Leak Control -
Normally Open Master Valves**

**Application
Brief**

Badger Meter Model IR200 sensors may be located anywhere up to 2000 feet from our transmitters or displays.

Cable

All communications wire connecting flow sensors to the electronics that are buried below grade, with or without conduit, shall be constructed to direct burial specifications.

Multi-pair cable similar to telecommunications exchange cable (REA PE-89) may be used. This cable shall be constructed of 20 AWG or larger copper conductors twisted into pairs of varying lengths to prevent cross talk. Conductors shall be insulated with polyethylene or propylene with a suggested working voltage of 350 volts. The cable shall feature an aluminum-polyester shield and be finished with a black high-density polyethylene jacket. Examples are:

Belden No. 9883 (<http://www.belden.com>)
or
Paige P7171D (<http://www.paigewire.com>)

Single pair cable, produced by wire fabricators specifically for irrigation computer communications may also be used. This cable is constructed of; two conductors of ICE9 Class B; sixteen AWG 7 strand annealed copper; insulated with PVC; twisted into a cable with fillers; surrounded by an aluminum mylar shield. The cable shall also feature a drain wire and a moisture and sunlight resistant PVC jacket. Example:

Arizona Electrical Fabricators # 9516-2SP
(602) 253-1141

Splices

It is important that all wire connections be absolutely watertight with no leakage to ground nor shorting from one conductor to another. We recommend the use of an epoxy-type wire kit such as 3M Scotchlok™ 3570 Connector Sealing Packs or other DBM, DBY, or DBR Direct Bury Splice Kit. If one connector is used for both wire connections, make sure that the splices are staggered to prevent shorting. Follow the manufacturers instructions on the package.

<http://www.paigewire.com/Specs/3M3570.html>

<http://www.3m.com>

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(previously known as AN47)

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