

**NEW UNDERHILL 2WIRE DECODER SYSTEM**  
**CONVERTS ANY IRRIGATION CONTROLLER**  
**TO TWO-WIRE OPERATION**

ALISO VIEJO, CA

Underhill introduces a new 2Wire Universal Decoder Module that converts any commercial controller to two-wire operation, helping contractors save labor and materials on new installations or system expansions. Up to 63 irrigation stations can be operated with 2Wire.

The Universal Decoder can either be mounted internally inside an existing controller or externally in a separate enclosure placed anywhere along the two-wire path, up to 3,000 feet from the controller.

Along with the 2Wire Universal Decoder Module, the system includes 2Wire Universal Senders, which connect the controller's terminal strips to the two-wire path, and 2Wire Decoders, which can be installed at any location along the two-wire path and control one or two valves per station. 2Wire Decoder station numbers can be programmed in the field or the shop with the use of a push-button programmer.

The two-wire technology underlying the Underhill system has been utilized in more than 100,000 decoders installed throughout Europe in the last 10 years.

Two-wire systems have proven a cost-saving alternative on sites with more than 300 feet of mainlines, or at least a quarter acre of landscaping, such as sports fields, HOA common areas, parks, schools, cemeteries and nurseries.

Two-wire offers the ability to expand the system at any time by adding more valves and decoders anywhere along the two-wire path.

Repairs and troubleshooting are also simplified with only two wires to reconnect in the event of a break, rather than the 15 to 40 control wires typically used in a conventional multi-wire system.

Two-wire systems are also utilized during "phased" job construction.

The 2Wire Universal Decoder (along with any controller) can quickly be spliced into any permanent or temporary branch along the two-wire path where AC power is available. The system can be moved from phase to phase as needed.

Both the 2Wire decoder modules and field decoders have a two-year warranty that includes lightning protection, even with direct hits. Two-wire systems generally offer greater resistance to lightning damage because there is less copper wire in the ground to attract lightning strikes.

Underhill 2Wire decoders are particularly lightning resistant due to the state-of-the-art electronic design.

No field grounding is required for decoders along the two-wire path. It is recommended, however, that the Universal Decoder Module should be properly grounded via the Decoder Module.

Two-wire systems have been installed successfully in Europe for 20 years and have gained popularity in the U.S. within the last five years because of the labor and material savings and the flexibility to add zones during or after installation.

A "2Wire Cost Calculator" illustrates these savings and can be viewed on the Underhill Web site. Go to [www.underhill.us](http://www.underhill.us), then click on **2Wire Featured Product** and go to the **2Wire Cost Calculator** link.

Underhill offers an expanding line of irrigation products for contractors and superintendents, including Pellet Pro wetting agent applicator, Magnum and Precision hose-end nozzles, traveling Tracker portable irrigation and FCI Profile stainless steel golf nozzles.

Underhill also features the M-160, a 160-foot-radius pop-up sprinkler designed for natural and synthetic turf on sports fields.

For more information about Underhill 2Wire systems, call Underhill toll free at 866-863-3744 or see the 2Wire™ products online at [www.underhill.us](http://www.underhill.us). The company is headquartered in Aliso Viejo, CA, and has been in business for more than 25 years.