



**Smart Irrigation**  
From the Ground Up

(800) 272-7472  
www.tucor.com

The TDI brings Tucor's proven 2-wire technology to a standard controller. The TDI plugs directly into the outputs of a standard controller, allowing you to use that controller's interface but having all the advantages of Tucor's remarkable 2-wire system. Capable of operating up to 48 valves, the TDI can run ten valves at the same time and can actuate a valve up to 6100 feet away. It can work with one Master Valve and a flow sensor and contains many other advanced features and capabilities.

The TDI will revolutionize and expand your irrigation possibilities. You'll view 2-wire decoder technology in a whole new light.

# SPECIFICATIONS

## FEATURES:

- 48 Station capacity
- Ten valves simultaneously
- One Master Valve, with override capability
- One Flow Sensor
- Distance to valve up to 6100' (with Tucor 16 AWG wire)
- 2-wire short-circuit protection
- RKLD-50 decoders, programmable at the TDI
- 50 Hz mode for testing 2-wire
- Alarm relay, dry contact
- Four decoder power-output ranges
- Backlit LCD display for system status, alarms, and 2-wire conditions
- FloGuard for alarm and flow reactions
- Station testing
- USB port for firmware upgrades
- Optional HCP-100 handheld programmer for the RKLD decoders

## REQUIREMENTS:

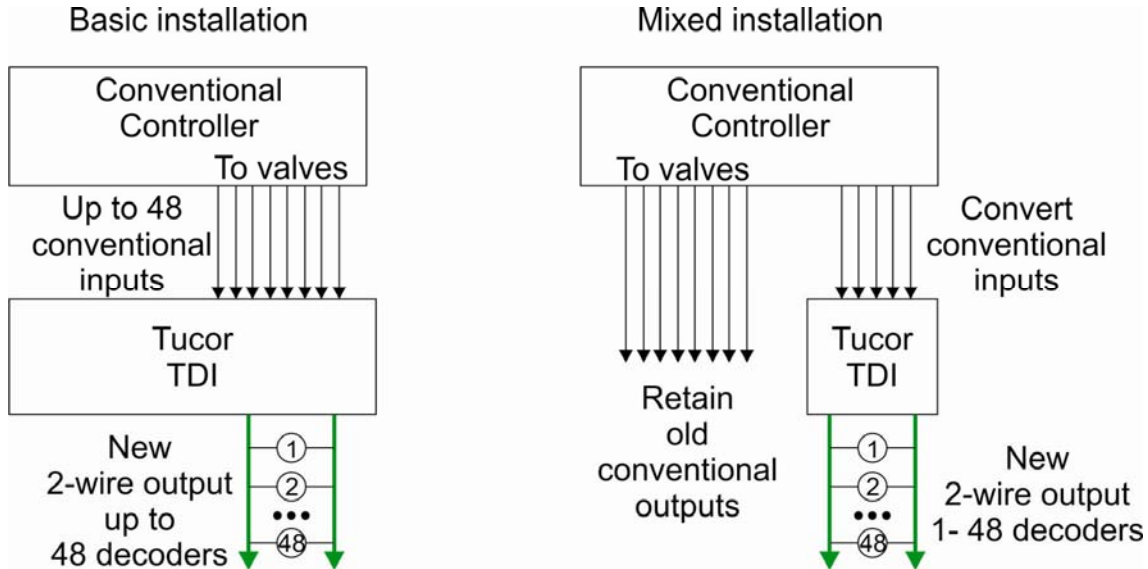
- Input: 24 VAC 50 VA, from controller or Tucor TRA-50
- RKLD-050 decoders
- Approved Tucor wire for 2-wire path
- TDI has built-in surge protection; proper grounding needed, with SD-100's every 500' on the 2-wire path



*The TDI as installed in a conventional controller's cabinet*

# TDI Typical Applications

The TDI is often used in either a new installation or in retrofitting an older controller. In a new (basic) installation, all of the valves will be connected to the TDI's 2-wire, which means far less wire being used. In a retrofit, some of the valves will remain connected to the conventional controller, and new valves added to the TDI's 2-wire (mixed). This means you don't have to run new conventional wires.



A more elegant application is when you have some conventional wires already going beneath a hardscape – parking lot, road, etc. – and you want to add valves beyond that. Rather than trying to pull new wires if you should have conduit, you can simply find two valve wires and use them as the output of the TDI's 2-wire. That is, if they are connected to existing valves, just disconnect them from the valves, remove the Common, add a decoder to each valve, and connect those two wires to the TDI as the 2-wire. You then connect more Tucor wire to the old wire to extend the 2-wire. This will allow you to add up to 48 more decoder/valves beyond the hardscape, as in the Mixed design above.

## Can't run new wire beneath a road?

