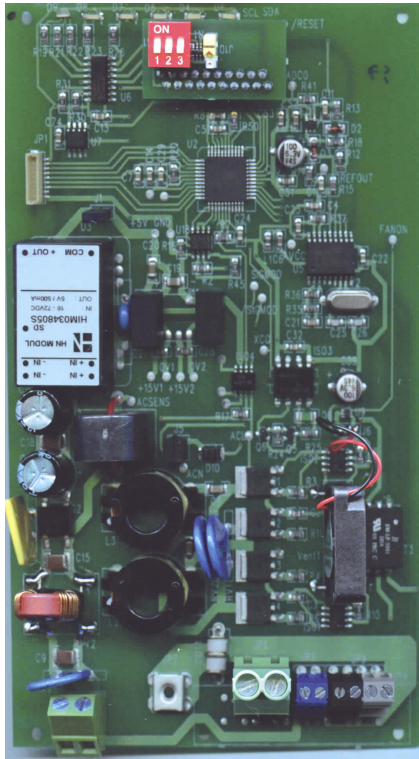


2 Wire Decoder Adaptor for Irrigation Controllers

This Eurocard sized board drastically simplifies the conversion of existing multi-wire controllers to two wire decoder.

By utilizing circuit technology that has been field-proven in thousands of installations and hundreds of thousands of decoders, the Tonick Blind Translator removes the technical risk in embracing 2 wire technology.



Eurocard: 100mm x 160mm x 20mm

The 2 wire decoder system from Tonick Watering has the following strengths and advantages.

- Decoder design proven in more than 300,000 stations over 20 years.
- 'Rock solid' lightning protection. Warranty includes damage by lightning!
- No earth stakes required along the 2 wire path, just one at the controller.
- Most types of cable are acceptable, no special polyethylene or twisted pair cable is necessary.
- Indifferent to truly horrendous earth leakage on the field cable. No DC used anywhere.
- Decoder communications protocol robust and proven in over 3000+ installations.
- 2 way decoders available. Measure: flow pressure, moisture and digital inputs
- Compatible with Decoder In A solenoid (DIAS)

The Blind Translator will signal up to 127 Tonick TW/2W series decoders or DIAS on its 2 wire path. It communicates with the host controller using serial communications RS485. Two communications protocols are available: A simple binary command set which is easy to program in the host controller's firmware. Alternatively, a **Modbus RTU** Slave protocol is available making it compatible with Programmable Logic Controllers (PLC) and **SCADA** systems. The PCB can be customised to fit into the user's controller for a small initial charge. A DIN rail version is available

Additional circuits on the Blind Translator allow the counting of flow pulses and manual operation of decoders under remote control using DTMF tones fed from a simple radio receiver or dedicated cellphone. This latter allows the user's own cellphone to control manual operations.

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