

## Product Specification

Product: DeVinci Translator  
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### Description

- Retrofit up to 24 existing irrigations stations with a True A/C 2-wire decoder for landscape applications, compatible with Tonick decoder translators.

### Features

The Tonick BT2 features include;

- 24 inputs to connect directly to output of existing irrigation controller. (With Supplied cable)
- 5 Button keypad and 2 line, 10 character display for convenient configuration and testing of the two wire.
- Large terminals on two wire output.
- Suits DeVinci POT Decoders and DIAS 2-way or 3-Way solenoids.
- Fault LED and relay output.
- Automatic and manual modes for testing 2-wire operation independent of irrigation controller

### Electrical Specifications

- Supply Voltage 24 ~32 Vrms AC 50 or 60Hz.
- Supply current UP TO 1A
- Inputs operate from 12 to 32VAC/DC
- Max solenoid load of 500mA ea.
- Max operation of 4 DIAS or 2 POT decoders at a time.
- Grounding point required
- Faulty output relay max 60V dc 42VAC @ 100mA

### (Electrical Specifications continued.)

- Recommended Inverted power supply is 12VDC - 28VAC, Constant, 60Hz (Tonick part number: PSU1228.)

*Note: Full Line output voltage will be continuously applied to the solenoids connected to 'on' decoders. Attention must be given to the specifications of these solenoids. **DO NOT EXCEED THE MAXIMUM OUTPUT CURRENT OF THE OEM DECODER ADAPTOR.***

### Line signalling

- Up to 24 Tonick 2 Wire decoders, or DIAS (Decoder In A Solenoid).
- Allow 45 seconds after power-up, before switching decoders
- Custom firmware for OEM systems.
- Compatible with all Tonick POT Decoders and with Decoder-In-A-Solenoid (DIAS).

### Approvals

- RoHS (European) compliant & lead free

### CPU

- 8 bit RISC. 20MIPs . 64K flash / 4K RAM / 2K EEPROM.

### Isolation

- 1KV between decoder line/ transformer AC irrigations inputs

### Connections

The Tonick BT2 should be wired as follows.

- AC and AC terminals should be wired to the transformer supply
- L1 is the Field Cable 'Live' terminal (referred to as the 'line')
- L2 is the Field Cable 'Neutral' terminal

## (Connections continued.)

- EST1 The Earth Stake terminal (EST) MUST be connected to a properly bedded earth stake or plate via a 4mm<sup>2</sup> (#11 AWG) or larger earth wire. This earth system is not to be regarded as an electrical safety earth. Connection of the EST to a building and/or an electrical earth is NOT permitted. If it was, a lightning strike on the field cable would be conducted into the building and/or its electrical installation.

- **Certificate of Origin**
- Manufactured in the EU.

## Warranty

- 5-year warranty including damage by lightning.

## Environmental

- Storage - 0 to 70 Degrees Centigrade  
5% to 95 % humidity (non -condensing).
- Operation - +5 to +70 degrees centigrade.  
De-rated from 1.2A output at +50degC to  
0.6A output at +70degC, 5 to 95 % humidity  
(non -condensing).
- Conformally coated with Acrylic, except fan  
and terminals

