

Product Specification

Product: Tonick Decoders - TK.DEC.1 Series
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Description

- True A/C 2-wire decoder for landscape applications, compatible with Tonick decoder translators.

Features

- Robust - direct bury unit suitable for wide range of applications.
- Expandable - simply splice additional decoders into the 2-wire line.
- Economical – typical installation requires up to 80% less cable than conventional systems.
- Redressable – decoders can be reprogrammed 100's of times using the Tonick Programming tool.
- Versatile - tolerant of earth leakage in existing cables, retrofit possible, including bunched multiwire to make 2-wire path.

Variants

TK.DEC.1

- Suits most Tonick translators.

TK.DEC.1.PRE

- Suits T-Box control system with BT2 Translator.

Electrical

- True A/C system not harmful to cable and joints.
- Operating voltage 19VAC-32VAC, 50 Hz or 60 Hz (*AC solenoids take 15%-20% less current at 60Hz*).
- Standby current 2.2mA nominal.

Electrical (cont,)

- Solenoid output max 800mA continuous.
- When solenoid energised, the full 2wire path AC voltage is continuously applied from the decoder.
- 2 wire path polarity indifferent, red & black interchangeable onto main cable.

Note some makes of AC solenoids overheat when continually supplied with more than 28VAC.

Operating

- Single output with TK.DEC.1
- Custom firmware for OEM systems.
- Station address limit as per translator.
- May be freely mixed with Decoder-In-A-Solenoid (DIAS) on the same 2 wire path.
- May be freely mixed with the Tonick range of Sensor decoders for moisture, pressure, water level, flow and digital inputs.

Physical

- Length: 64mm (not inc cables)
- Diameter: 42mm
- Fully potted in PP tube
- Totally waterproof suitable for direct bury

Wiring

- Type LiYi 0.75, AWG18/0.75mm², PVC, 300mm length.
 - Red: L1 (2-wire live)
 - Black: L2 (2-wire neutral)
 - Yellow: solenoid
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Note Aquamonix recommends the use of Snaploc or DBR-Y connectors. (King Innovation, USA)

Protection

- Internal lightning protection.
- No grounding required along 2-wire path.

Certificate of Origin

- Manufactured in the EU.

Warranty

- 5-year warranty including damage by lightning.