



AQUAMONIX
Measure. Monitor. Master.

TK SERIES DECODER : 2-WIRE TECHNOLOGY

Tonick **Watering** Two Wire Technology

The Aquamonix range of 2-Wire Decoders is marketed globally under Tonick Watering.

Our 2-wire and wireless products can be used in various industries and tailored to specific project needs. All our 2-wire decoder systems and 2-wire irrigation controllers can be applied to a wide range of applications including irrigated agriculture, commercial landscapes, water infrastructure, smart cities and golf and sports turfs.

The TK Series decoder is the ideal cost effective option for landscape applications. It is robust and reliable for even the harshest of environments.



FEATURES

- Robust - built for tropical strength, potted for direct burial, and suitable for wide range of applications
- In-built lightning protection
- 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 multiple times using the Tonick Programming tool
- Versatile - tolerant of earth leakage in existing cables, retrofit possible, including bunched multiwire to make 2-wire path
- No grounding necessary along the 2Wire 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
- 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 and 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
- Compatible with Decoder-In-A-Solenoid (DIAS) on the same 2 wire path
- Compatible with the Tonick range of sensor decoders for moisture, pressure, water level, flow and digital inputs

SPECIFICATIONS

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

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)

Certificate of Origin

- Manufactured in the EU

Warranty

- 5-year warranty including damage by lightning