



AQUAMONIX
Measure. Monitor. Master.

DIAS DECODER IN A SOLENOID : 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 innovative DIAS Decoder-In-A-Solenoid combines a 2-wire decoder and solenoid into one easy to use product.



FEATURES

- Reduces number of field wire connections by 50%
- A multi-coloured LED that provides feedback, reducing troubleshooting time
- Compatible with most major brands of valve
- Compatible with all Tonick based 2-wire controllers and converters
- Can operate over longer distances, with a larger number of concurrent active stations
- No grounding necessary along the 2Wire path

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IRRIGATION
AUTOMATION



WATER
MANAGEMENT



REMOTE
MONITORING

www.aquamonix.com.au

- Built-in powerful protection from lightning surges
- Can re-use existing wiring, will tolerate earth leakage on 2-wire path
- 'Out of the box', works as a normal 24VAC solenoid with ultra-low current
- 3-way version for master valve and agricultural applications
- Compatible with the N/T series decoders and sensor decoder range including soil moisture, flow and pressure
- Re-addressable

DIAGNOSTIC LED

The DIAS has a useful LED that indicates the condition of the device

- Red: Solenoid active, address 0
- Orange: Solenoid active, address 1-127
- Green: Path active, solenoid off

ELECTRICAL

- True A/C system not harmful to cable and joints
- Operating voltage 19VAC-32Vac, 50 or 60 Hz
- Idle current (typical) - 4.5mA
- Holding current (2-way solenoid) - 30mA
- Holding current (3-way solenoid) - 60mA
- In-Rush current – 300-350mA
- Maximum recommended active 2-way solenoids per 2-wire path - 16 (DIAS)
- Maximum recommended active 3-way solenoids per 2-wire path - 10(DIAS)

OPERATING

- Custom firmware for OEM systems
- Station address limit as per translator
- Compatible with other Tonick decoders on the same 2-wire path
- Compatible with the Tonick range of sensor decoders for moisture, pressure, water level, flow and digital inputs

SPECIFICATIONS 2 - WAY ACTUATOR

- Length: approx. 60mm (not including cables)
- Diameter: 32mm
- Fully potted to waterproof the electronics
- ¾" UNF20 thread

SPECIFICATIONS 3 - WAY ACTUATOR

- Length: approx. 70mm (not including cables)
- Diameter: 32mm
- Fully potted to waterproof the electronics
- ¾" UNF20 thread, front
- 1/8" BSP Female, water port thread, back

WIRING

- Type LiYi 0.75, AWG18/0.75mm², PVC, 550mm length, Black, outer for 2-wire path connection.

Approvals

- CE (European) marked and compliant
- RoHS (European) compliant and lead free

Certificate of Origin

- Manufactured in the EU

Warranty

- 5-year warranty including damage by lightning

Please refer to the Tonick OEM Guide for integration information.