

FD-TURF Two-Wire Decoders

SiteControl and ESP-LXD with Support for 1, 2, 4 or 6 Decoder Addresses

Features

- Five different decoder options let you choose the precise amount of landscape irrigation control you need. Select different two-wire decoders to operate one, two, four, or six valves.
- Installed out of sight and protected from the elements and vandalism
- Enables advanced diagnostic and sensor features

Specifications

- **Mounting:** In valve box (recommended) or direct burial
- **Power Draw:**
 - FD-101TURF: 0.5 mA (idle) 18 mA (per active solenoid)
 - FD-102TURF: 0.5 mA (idle) 18 mA (per active solenoid)
 - FD-202TURF: 1 mA (idle) 18 mA (per active solenoid)
 - FD-401TURF: 1 mA (idle) 18 mA (per active solenoid)
 - FD-601TURF: 1 mA (idle) 18 mA (per active solenoid)
- **Dimensions:**
 - FD-101TURF: Length: 2.77 in. (70 mm), Diameter: 1.5 in. (40 mm)
 - FD-102TURF: Length: 3.35 in. (85 mm), Diameter: 1.77 in. (45 mm)
 - FD-202TURF: Length: 3.35 in. (85 mm), Diameter: 1.97 in. (50 mm)
 - FD-401TURF: Length: 3.94 in. (100 mm), Diameter: 2.56 in. (65 mm)
 - FD-601TURF: Length: 3.94 in. (100 mm), Diameter: 2.56 in. (65 mm)
- **Solenoids:**
 - FD-101TURF: 1 with individual control
 - FD-102TURF: 1 or 2 simultaneously
 - FD-202TURF: 1 to 4 simultaneously
 - FD-401TURF: 1 to 4 with individual control
 - FD-601TURF: 1 to 6 with individual control
- **Wires:**
 - FD-101TURF: Blue to cable, white to solenoid
 - FD-102TURF: Blue to cable, white to solenoid
 - FD-202TURF: Blue to cable, white and brown to solenoids
 - FD-401TURF: Blue to cable, color-coded to solenoids
 - FD-601TURF: Blue to cable, color-coded to solenoids
- **Surge Protection: One of the following is required every 500 ft. along two-wire path (40 V, 1.5 kW transil)**
 - LSP-1 Line Surge Protector
 - FD-401TURF with built in surge protection
 - FD-601TURF with built in surge protection

Note: Minimum 10ohms resistance grounding required at controller and each surge protector

- **Input Fuse (FD-401TURF and FD-601TURF only):** 300-500 mA, thermal

Electrical Input:

- Maximum voltage: 36 Vpp
- Maximum load:
 - FD-101TURF: 1 Rain Bird solenoid (one per address)
 - FD-102TURF: 2 Rain Bird solenoids (two per address)
 - FD-202TURF: 4 Rain Bird Solenoids (two per address)
 - FD-401TURF: 4 Rain Bird Solenoids (one per address)
 - FD-601TURF: 6 Rain Bird solenoids (one per address)

Decoder/Solenoid Wires:

- Electrical resistance: Max. 3 ohms

Maximum Distance Decoder/Solenoids:

- Cable length: 14 gauge, 456 feet

Wiring: 2 x 14-gauge (1.5 mm²) solid copper, UF insulated type

Environment:

- Working range: 32° to 122° F (0° to 50° C)
- Storage range: -4° to 158° F (-20 to 70° C)
- Humidity: 100%

Note: Rain Bird recommends using Rain Bird WC Series Wire Connectors (pg. 80) waterproof connectors for all connections.

Note: FD-Series Decoders are not compatible with residential valves like the Rain Bird HV, DV, DVF, ASVF, JTV, JTVF, and Drip Control Zone Kit with ASVF/DV valves

Models

- **FD-101TURF: Field Decoder interfacing signal line and valve**
- FD-102TURF: Field Decoder interfacing signal line and valve or one pair of valves
- FD-202TURF: Field Decoder interfacing signal line and 2 valves or 2 pair of valves
- FD-401TURF: Field Decoder interfacing signal line and up to 4 individual valves
- FD-601TURF: Field Decoder interfacing signal line and up to 6 individual valves
- **LSP-1TURF: Line Surge Protection**
- **SD-211TURF: Sensor Decoder interfacing signal line and analog or digital decoders. Previously SD-210TURF (pre -2023)**



Decoders