

TORO®

TDC SERIES 2-WIRE SYSTEM



For an energy efficient, highly cost-effective way to irrigate large commercial installations, you'll want the TDC Series from Toro®. Using a two-wire path to communicate to buried decoders, the TDC system eliminates high costs associated with traditional valve wiring, trenching and trouble-shooting.

FEATURES & BENEFITS

New ISP Decoders

Industry leading surge protections up to 20 KV means less grounding in the field than competitive products.

Advanced Diagnostics

The TDC provides true two-way communication with each decoder in the field, thus providing communication verification to decoders in the field, as well as shorted or open solenoid conditions, making troubleshooting a breeze.

Low-Power Operating Costs

The TDC Decoders operate DC Latching Solenoids which utilize no power when valves are in operation.

Water Budget

Water budget by controller, by program and by station (Season Adjust) 0 to 250% in 1% increments.

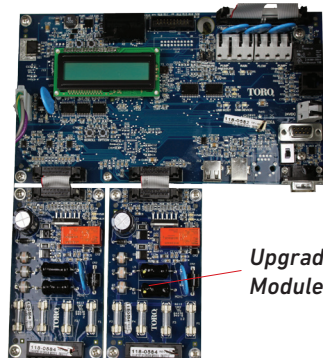
Simple, Intuitive Programming

Installation and future servicing are quick and simple thanks to the large LCD display and the industry's most intuitive interface.



Modular Design

The base model of the TDC offers 100 stations with capability to add another module allowing up to 200-station control. This is ideal for phased projects. Independently fused wire paths (4 per 100 stations = 8 for 200 stations) provide protection to the controller in the event of a short in field wiring.



TMR-1
Compatible



Rain
Sensor
Compatible



PSS-KIT
Compatible



Key-locking, Front-Entry, Metal Cabinet

TDC offers a key-locking cabinet in both the outdoor and indoor model controllers. Constructed from heavy-duty powder-coated metal, this is a wall-mount cabinet that provides superior weather and vandalism resistance.



Stainless Steel Pedestal Option

TDC units may also be ordered preinstalled in a stainless steel pedestal.

Please specify **CDEC-PED-100** or **CDEC-PED-200**.

SPECIFICATIONS

Electrical

- Input Power: 120 VAC or 220/240 VAC (50/60 Hz)
- Station Output Power: Up to 38 VAC maximum; 3 amps max. output
- Wiring—two wire path: Jacketed, twisted pair 14 AWG to 15,000 ft.
- Wiring—two wire path: Jacketed, twisted pair 16 AWG to 8,450 ft.
- Wiring—decoder to solenoid: Standard pair 14 AWG to 400 ft.

Dimensions

- Cabinet: 14" W x 13" H x 6" D
- Stainless steel pedestal-mount: 17 1/8" W x 34 1/2" H x 8 5/8" D

Optional Accessories

- PSS-KIT – Precision™ Soil Sensor Kit
- DEG-SG-LINE – Decoder, Line Surge Protector
- TRS – Wired RainSensor
- 53853 – Wired Rain/Freeze Sensor
- TWRS/TWRFS – Wireless RainSensor or Wireless Rain/Freeze Sensor
- TMR-1-KIT – Toro Maintenance Remote

Warranty

- Five years

TDC SERIES MODEL LIST

Model	Description
METAL PEDESTAL MOUNT	
CDEC-SA-100	100-station, with remote connection
CDEC-SA-200	200-station, with remote connection
CDEC-PED-100	100-station, Two-wire controller on stainless steel pedestal
CDEC-PED-200	200-station, Two-wire controller on stainless steel pedestal
TWO-WIRE STATION DECODERS	
CDEC-ISP-1	1-station with integrated surge protection (Operates up to two solenoids)
CDEC-ISP-2	2-station with integrated surge protection (Operates up to four solenoids)
CDEC-ISP-4	4-station with integrated surge protection (Operates up to eight solenoids)

Additional Features

- ✓ 20 KV surge protection with proper grounding of 10 Ohms or less at the controller
- ✓ 10 independent irrigation programs
- ✓ Six start times per program
- ✓ Day of the week programming, odd/even, interval (1-31 days)
- ✓ 0-25% adjust by controller, by program, by station
- ✓ Day Exclusion (remove a day from standard program)
- ✓ Programmable master valve and pump start, by station
- ✓ Manual start of each station or entire program
- ✓ Non-volatile memory retains programming
- ✓ Self-diagnostics circuit breaker skips shorted/open stations
- ✓ Two-way confirmation of decoder activation
- ✓ Activate up to 20 solenoids at up to 2.8 miles away
- ✓ Programmable rain delay up to 31 days
- ✓ Water window calculator
- ✓ 10-digit alpha-numeric zone identification
- ✓ Remote-Ready and RainSensor™-compatible
- ✓ Upgradeable to Sentinel® Central Control
- ✓ Utilizes DC latching solenoids for valve control

Specifying Information—Decoders

Model	Description
CDEC-ISP-1	Single Station Decoder with integrated surge protection
CDEC-ISP-2	Two Station Decoder with integrated surge protection
CDEC-ISP-4	Four Station Decoder with integrated surge protection

Specifying Information—DEC

Model	Description
DEC-SG-LINE	Decoder, line surge protector*

*One per 1500 Feet

Specifying Information—TDC

CDEC-XXX-XXX		
Model	Cabinet	Description
CDEC	XXX	XXX
CDEC—2-wire Controller with remote hook up	SA—Wall Mount Metal Cabinet PED—Stainless Steel Pedestal	100—100 Stations 200—200 stations

Example: A TDC Controller with 200 stations would be specified as: **CDEC-SA-200**



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