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**

Upgrade Module
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)
- 0-255% 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

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
- TWR5/TWRF5 – Wireless RainSensor or Wireless Rain/Freeze Sensor
- TMR-1-KIT – Toro Maintenance Remote

Warranty

- Five years

TDC SERIES MODEL LIST

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDEC-SA-100</td>
<td>100-station, with remote connection</td>
</tr>
<tr>
<td>CDEC-SA-200</td>
<td>200-station, with remote connection</td>
</tr>
<tr>
<td>CDEC-PED-100</td>
<td>100-station, Two-wire controller on stainless steel pedestal</td>
</tr>
<tr>
<td>CDEC-PED-200</td>
<td>200-station, Two-wire controller on stainless steel pedestal</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Model</th>
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</thead>
<tbody>
<tr>
<td>CDEC-ISP-1</td>
<td>1-station with integrated surge protection</td>
</tr>
<tr>
<td></td>
<td>(Operates up to two solenoids)</td>
</tr>
<tr>
<td>CDEC-ISP-2</td>
<td>2-station with integrated surge protection</td>
</tr>
<tr>
<td></td>
<td>(Operates up to four solenoids)</td>
</tr>
<tr>
<td>CDEC-ISP-4</td>
<td>4-station with integrated surge protection</td>
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<tr>
<td></td>
<td>(Operates up to eight solenoids)</td>
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Specifying Information—Decoders

<table>
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<tr>
<th>Model</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CDEC-ISP-1</td>
<td>Single Station Decoder with integrated surge protection</td>
</tr>
<tr>
<td>CDEC-ISP-2</td>
<td>Two Station Decoder with integrated surge protection</td>
</tr>
<tr>
<td>CDEC-ISP-4</td>
<td>Four Station Decoder with integrated surge protection</td>
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</table>

Specifying Information—DEC

<table>
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<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEC-SG-LINE</td>
<td>Decoder, line surge protector*</td>
</tr>
</tbody>
</table>

*One per 1500 Feet

www.toro.com

The Toro Company • Irrigation Division • 5825 Jasmine St. Riverside, CA • 92504 • 877-345-8676
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