

TORO**TMC-424E SERIES****WATER
SMART**

The TMC-424E Series takes modularity to a whole new level. Toro's advanced modular technology combines sophisticated features with simple operation to provide a customizable controller.

FEATURES & BENEFITS

Station Count Modularity

Station count modularity from 4 to 24 stations using 4- or 8-station modules for flexibility.

Two Levels of Surge Protection

Standard or High Surge modules provide options to meet regional lightning protection needs.

Flow-Sensing

Monitor and react to system leaks or breaks.

Up to 4 Master Valve or Pump Start Connections

Options for connection of up to four Master Valve or Pump Start Relays utilizing TSM-4F or TSM-8F modules.

Run Times In Minutes or Seconds

Ability to set run times for less than a minute provides efficient watering for planter box, misting cycle, nursery, or syringe cycle needs.

Armchair Programming

Removable Timing Mechanism can be powered by 9V battery allowing for easy and comfortable programming.



Rain
Sensor
Compatible



PSS-KIT
Compatible



Flow
Sensor
Compatible



TMR-1
Compatible



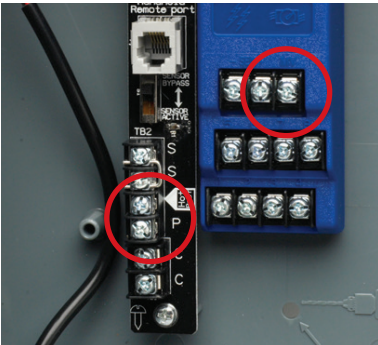
EPA WaterSense®
certified when
used with Irritrol®
Climate Logic®

WATER MANAGEMENT HIGHLIGHT



Flow-Sensing for Greater Water Savings

With flow-sensing capability that monitors up to three independent flow sensors, the controller consistently monitors for problems and takes action as needed to isolate breaks or system issues.



Up to 4 Master Valve/PS Connections

One on controller terminal block and 3 flow-sensing modules. Any station can be assigned to any MV. Options for a single station to activate both a controller and flow module MV/PS connection (e.g., MV and Booster Pump activation).

TMC-424E SERIES MODEL LIST

Model	Description
TMC-424E-ID*	Modular, Indoor
TMC-424E-OD*	Modular, Outdoor
* Base models include TSM-4 (4-station Module)	
STATION MODULES - BASE MODEL INCLUDES 4 STATIONS	
TSM-4	4-station Expansion Module
TSM-4H	4-station Expansion Module, High-Surge
TSM-4F	4-station Expansion Module, Flow-Sensing
TSM-8	8-station Expansion Module
TSM-8H	8-station Expansion Module, High-Surge
TSM-8F	8-station Expansion Module, Flow-Sensing

SPECIFICATIONS

Electrical

- Input power:
 - 120 VAC
 - 30 VA (internal and external plug-in type transformer)
 - UL, CUL-listed
- Station output power:
 - 24 VAC
 - 0.50 amps per station maximum
 - 0.50 amps pump/master valve
 - 1.20 amps total load
- Surge Protection:
 - Standard – 6.0 KV common mode; 600 V normal mode
 - High Surge – 6.0 KV common mode; 6.0 KV normal mode

Dimensions

- 10³/₄" W x 10¹/₄" H x 4⁵/₈" D
- Weight: Indoor–7.5 lbs.; Outdoor–7.1 lbs.

Optional Accessories

- PSS-KIT – Precision™ Soil Sensor Kit
- TRS – Wired RainSensor
- 53853 – Wired Rain/Freeze Sensor
- TWRS/TWRFS – Wireless RainSensor or Wireless Rain/Freeze Sensor
- TMR-1 – Maintenance Remote
- TFS–Flow Sensor

Warranty

- Five years

Additional Features

- ✓ Four programs with 16 total start times
- ✓ Three Scheduling choices
 - Seven-day calendar
 - 1- to 31-day interval with day exclusion
 - Odd/even days with day exclusion
- ✓ Station run times in minutes or seconds
- ✓ Programmable well recovery/station delay from 1 to 60 seconds or 1 to 60 minutes
- ✓ Pump start/master valve settable by program and station
- ✓ Operate up to three programs simultaneously
- ✓ Rain delay from one to 14 days and water budgeting from 0-200% in 10% increments
- ✓ Hot-swappable station modules
- ✓ Review feature quickly recaps all program information
- ✓ Short detection for faster troubleshooting
- ✓ Valve Test mode for quick system checks
- ✓ Multi-language capability (English, Spanish, French, Italian, German and Portuguese)
- ✓ Program erase
- ✓ 12/24-hour real-time clock
- ✓ Non-volatile memory

Specifying Information—TMC-424

TMC-424E-XX-XX-XX-XX			
Model	Type	Description	
TMC-424E	XX	XX-XX-XX	
TMC-424E—Toro Controller	ID—Indoor OD—Outdoor	4—4-station, Standard-Surge 4H—4-station, High-Surge 4F—4-station, High-Surge and Flow-Sensing	8—8-station, Standard-Surge 8H—8-station, High-Surge 8F—8-station, High-Surge and Flow-Sensing

Example: A 16-station TMC-424E controller in an indoor cabinet with one flow monitor would be specified as: **TMC-424E-ID-8F-8**

* Note: Base model comes with one TSM-4 (4-station) included.



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