

TWC-NV Irrigation Controller



SPECIFICATION

BUSINESS FIELD

- LANDSCAPE & TURF
- GREENHOUSE, NURSERY & INDUSTRIAL
- AGRICULTURE
- GOLF



The TWC Irrigation Controller is the worthy successor to Tucor's powerful and flexible TWC Flowmaster line, still based on Tucor's proven 2-wire technology. The NV continues all of the irrigation control concepts and features of the TWC, and adds a number of enhancements; it takes advantage of significant improvements in modern electronics technology; and it is encased in a robust NEMA housing. It is directly compatible with all TWC components.

The TWC-NV requires only 2-wires to control up to 200 valves, up to 7 miles away. This remarkable feat is accomplished by connecting a uniquely-addressed decoder to the 2-wire path; the decoder is also connected to the valve. Turning on the decoder then turns on the valve: up to ten at the same time!

Feedback, flow control, alarm functions, and Excel-based reporting features are unsurpassed. Remote control options add functionality and convenience. The -C option includes a built-in telephone modem. Free "RMS" Windows-based software makes controller remote operations and programming changes a breeze.

The NV is available in four sizes: 50, 100, 150, and 200 decoders. Upgrades are easily performed using only the controller via software keycodes.

* 200 STATION CONTROLLER *



TWC

TWC FEATURES

- 50/100/150/200 Stations
- 10 Programs
- Proactive use of ET and Soil Moisture Data
- Unique, robust 2-wire decoder technology
- 10 POC
- 10 Sensors



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TWC-NV Irrigation Controller



Specifications:

HARDWARE (TWC):

SYSTEM CAPACITY:
50 / 100 / 150 / 200 decoders
VALVES OPERATING SIMULTANEOUSLY:
10*
ELECTRICAL INPUT:
120 VAC, 60 Hz. 50 VA
ELECTRICAL OUTPUT:
34 V Peak to Peak square wave
SIGNAL CABLE (2-WIRE):
12-22 AWG
BATTERY BACKUP:
Clock, decoder data, schedule data, monitoring data
ENVIRONMENTAL:
Locking metal cabinet with internal transformer

SOFTWARE (RMS):

MICROSOFT WINDOWS BASED, 98 - XP

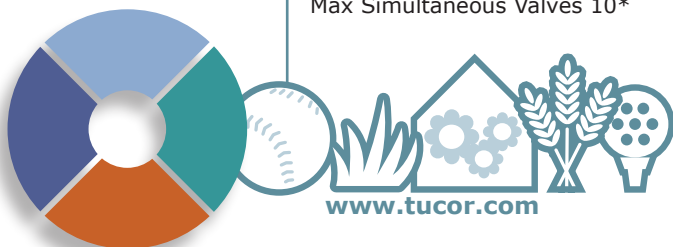
IRRIGATION SCHEDULES:

10 + test schedule
START TIMES:
Each schedule – 6 start times / day
START METHODS:
Day & time start, linked schedule start
TIMING:
0-999 minutes, in one minute steps
PROGRAM CYCLE:
14 or 15 days
OPERATION:
100 Steps per Schedule
DRY RUN:
Total run time is displayed
MONITORING (DISPLAY):
Remaining time, system flow, 2-wire voltage and current
PUMP CONTROL:
Full automatic control, main (1, assigned to all valves)
and booster pumps (up to 9, 1 assigned per valve)
SENSOR FEEDBACK:
Rain and pump alarm, line conditions monitored and displayed as alarm, up to 10 flows
TROUBLE-SHOOTING:
Built-in test programs
FIELD TRANSMITTER:
Supports field access units (direct 2-wire or radio-based)
REMOTE OPERATIONS:
PC via serial cable, modem, cellular connection, LAN/WAN, or Internet
LOCAL OPERATIONS:
Panel, PC (desktop or laptop)
CONTROLLER
Input Voltage 120 volts, 50/60Hz, 50VA
Output Voltage 34 VAC Peak to Peak
Max Number of Decoders 50 / 100 / 150 / 200
Max Number of Sensor Decoders 10
Max Simultaneous Valves 10*

Max Schedules 10 + 1 test schedule
Max Simultaneous Schedules 10
Irrigation Methods
Steps 1-10 decoders per Step;
1 - 999 minutes per Step;
100 Steps per Schedule
Days 14 or 15
Start Times 6 per Schedule
Start Methods Day and time start, linked schedule start
Run Time 0 to 999 minutes / Step
Water Budget 0 to 250%
Pump Control 10 pumps
(1 master + 9 booster)
Manual Operation Individual decoders Schedules
Sensors Rain check
Alarm (general)
ET
Monitoring Active decoder shown with remaining time
Schedule Pause Pause/edit and manual Start/resume both at the controller and via PC communications
Alarms (Flow) High flow on system total
High flow on valve basis
Low flow on valve basis
Unscheduled flow
No flow (pump safety)
Dimensions 12" x 12" x 5.2" (approx.)
Weight 12 lbs.
Ingress protection IP65 / NEMA 4
Ambient temperature 32° F – 132° F
Mounting Wall (pedestal optional)
Display language English
REMOTE OPERATION
PC Windows software, (included): Direct serial cable (RS-232)
Dial-up via phone modem
LAN/WAN
GPRS †
(subscription)
Palm Treo software (optional): With Treo service and controller's phone modem
Local (field access) Direct 2-wire plug in (FA-100)
Radio handheld (RFA)
ALARM & REPORTING CAPABILITIES
Alarm to Call-Out via Pager, Cell, SMS †
, Email †
- Short Circuit
- Rain Detection
- Auxiliary Device Alarm
Alarm and Reaction
- Unscheduled flow (leak detection)
- System maximum flow
- Valve % over/under flow
- Identification of failed valves (on percent flow deviation)
- Pump protection, minimum flow required (auto shut down)
- Rain shutdown
- Capable of storing 3200 events
- Microsoft Excel-based reporting

Contact Tucor:
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More information:
www.tucor.com



How to Order:

TWC-NV IRRIGATION CONTROLLER	
Part Number	Product Description
TWC-NV-xxx-y	TWC (where xxx=50, 100, 150, 200 # of decoders)