



TWC-NV

The TWC-NV 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..



TWC-NV

Dimensions: 12" x 12" x 5.2" (approx.)
Weight: 12 lbs.
Ingress protection: IP65 / NEMA 4
Ambient temperature: 32° F – 132° F
Wall mounting

SOFTWARE SPECIFICATIONS (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: 60 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) and booster pumps (up to 9)
Sensor Feedback: Rain and pump alarm, line conditions monitored and displayed, up to 10 flows
Trouble-shooting: Built-in test programs
Field Transmitter: Supports field access unit(s)
Remote Operations: PC via serial cable, modem, cellular connection, LAN/WAN, or Internet
Local Operations: Panel, PC (desktop or laptop)

HARDWARE SPECIFICATIONS (TWC):

System Capacity: 50/100/150/200 decoders
Valves per Decoder: 1 or 2
Valves Operating Simultaneously: 10
Electrical Input: 24VAC, 60Hz. 50 VA
Electrical Output: 34V square wave
Signal Cable (2-wire): 12-22 AWG
Battery Backup: clock, calendar, decoder data, schedule data, monitoring data
Environmental: locking metal cabinet with internal transformer.

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TWC-NV CONTROLLER SPECIFICATIONS

<p style="text-align: center;">SOFTWARE</p> <p>RMS Remote Monitoring Software</p> <ul style="list-style-type: none"> - remote access and management of multiple sites - initialization and editing of installation data and irrigation schedules - data collection from and transfer to individual controller - edit installation data and irrigation schedules on-line - monitor flow on-line - extract and view logged data via Logviewer™ and Microsoft Excel® - global Auto On/Off (call all sites and take out of Auto, call all sites and restore to Auto) - automatic Monitoring data retrieval on a daily basis <p style="text-align: center;">CONTROLLER</p> <p>Input Voltage 24 volts, 50/60Hz, 50VA Output Voltage 34 VAC 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</p> <p>Irrigation Methods</p> <ul style="list-style-type: none"> Steps (1–10 decoders per step) 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 <p>Water Budget 0 to 250% Pump Control 10 pumps (1 master +9 booster) Manual Operation - Individual decoders - Schedules</p> <p>Sensors</p> <ul style="list-style-type: none"> - Rain check - Alarm (general) - ET <p>Monitoring Active decoder shown with remaining time</p> <p>Schedule Pause Pause/edit and manual Start/resume both at the controller and via PC communications</p> <p>Alarms</p> <ul style="list-style-type: none"> - high flow on system total - high flow on valve basis - low flow on valve basis - unscheduled flow - no flow (pump safety) - system short circuit 	<p>Remote Operation</p> <p>PC Windows software, (included):</p> <ul style="list-style-type: none"> - Direct serial cable (RS-232) - Dial-up via phone modem - LAN/WAN - GPRS (with Tucor's GPRS service) <p>Palm Treo software (optional): With Treo service and controller's modem</p> <p>Local (field access) Direct 2-wire plug in (FA-100) Radio handheld (RFA)</p> <p>Display languages : English and Spanish</p> <p style="text-align: center;">ALARM & REPORTING CAPABILITIES:</p> <p>Alarm to Call-Out via Pager, Cell, SMS*, Email*</p> <ul style="list-style-type: none"> - Short Circuit - Rain Detection - Auxiliary Device Alarm <p>* Requires Tucor's GPRS service</p> <p>Alarm and Reaction</p> <ul style="list-style-type: none"> - Unscheduled flow (leak detection) - System maximum flow - Valve % over/under flow - Identification of failed valves - Pump minimum flow (auto shut down) - External event management - Rain shutdown: 1-99 hours, selectable <p>Reports</p> <ul style="list-style-type: none"> - Capable of storing over 3200 events - Microsoft Excel based reporting <p style="text-align: center;">OPTIONS</p> <p>FA-100 Field Access Unit RFA-100-F Radio Field Access (450 MHz) RFA-100-P Portable Field Access Unit PD-100 Integrated pump decoder CAM-25 Controller Adaptor Module— adapts existing systems to Tucor controllers</p> <p>SC-25/50 System Conversion terminal— adapts existing wiring to a two-wire system</p> <p>PDA-200 Palm PDA software (requires third- party dial-up access)</p> <p>LAN-100 Interface and PC software for local /wide area network connection</p> <p>WLAN-100 Wireless LAN connection</p> <p>FS 100 – 400 Flow Sensors – T-type 1” – 4”</p> <p>FS-IN Flow sensor brass insert (saddle)</p> <p>WM-100 Wireless Modem (900 MHz)</p> <p>TR-100 Telephone-to-Radio modem</p> <p>PED-xxx Pedestal and Cabinet mounts</p>
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