



Smart Irrigation
From the Ground Up

(800) 272-7472
www.tucor.com



TUCOR'S PROCOM 2-WIRE CONTROLLER can handle anywhere from 50 – 500 valves, turning on up to 40 valves simultaneously. This robust controller works on a "flow management" system. When you tell the Procom the flow rates of your various pipes and valves, what valves are connected to what pipes, and how long you want to run each valve, the Procom will automatically arrange each Schedule to maximize the flow of the system, thus minimizing the time it takes to run the Schedule. You gain maximum efficiency for your irrigation system.

Of course, the Procom includes Tucor's RMS software with our friendly Excel-based monitoring data. On-board diagnostics and run-time previews let you know what to expect before the system runs. There are a host of remote connection options to save you travel time to the site. A simple faceplate with LED indicators restricts unauthorized access to the Procom's operations.

The Procom has many other features designed to handle your most complex flow management needs. If you want to move a lot of water in a short time, think Procom!

SPECIFICATIONS

OPERATING FEATURES:

- 30 Schedules, each with 12 Start times per day
- Schedules run in three modes:
 - Automatic (as calculated by the Procom):
 - fastest, with max water usage per time
 - Priority: one at a time, valves with highest flows first
 - Sequential: one at a time, as listed in the Schedule setup
- One Schedule runs concurrently (no overlapping)
- 40 valves simultaneously, 20 each on two 2-wire paths*
- Valves run in 1 minute increments
- Valve run times defined as per time or application rate
- 10 flow sensors
- 16 pumps (1 Master + 15 Boosters)
- Schedule "dry run" to verify duration, flows, and sequencing of valves
- Monitoring data: Excel-based spreadsheets show operations, flows, errors, etc.
- Water Budget: 1 - 250 %

DIAGNOSTICS:

- Real-time tests for
 - Line Decoders: graphical display of electrical currents
 - Pump Decoders: Relay operation
 - Short Circuit Mode: Enable external measurements of 2-wire path
 - Line Survey: Shows real-time status of 2-wire electrical
- LED'S: Indicate status of Power, Irrigation, Alarm, and Communications

MISCELLANEOUS:

- Rain Sensor input: interrupts 2-wire output
- Flow sensor: Supports 10
- Alarms:
 - Flow: High, Unscheduled, Main Pump Failure
 - Other: Rain, "Alarm", Line Voltage, 2-Wire Short Circuit



The PROCOM 2-wire controller supports up to 500 valves

- Includes
 - RMS software, Windows 98 - XP compatible
 - Power Transformer
 - Serial cable, null modem, DB9 F/F
- Adjustable valve power output
- Remote line-of-sight radio operations (RFA-100)
- Network Ethernet connections (W/LAN-100)
- Automatic 2-wire over-current protection

HARDWARE:

ELECTRICAL:

Input = 120 VAC @ 50 VA (Procom 50 - 100)
150 VA (Procom 200-500)

Output = 24 VAC

MAXIMUM STATIONS:

50, 100, 200, 300, 400, 500

INTERNAL DATA BACKUP:

Installation and monitoring data: 2 AAA, replaceable

MOUNTING:

Indoor, 5° - 30° C, 20% – 80% humidity

DIMENSIONS:

13" x 7" x 3" (approx.)

*Using default valve power. Using a different valve power, changing the specified wiring type, length, valve distribution or connectors may result in less capability of active stations. See Tucor's Wire Spec for distances.