



PROCOM CONTROL SYSTEM



PROCOM Controller

OVERVIEW:

The Tucor® PROCOM (c) Control System is an intelligent stand-alone controller for individual control of up to 500 valves. The controller connects to a PC, via a serial cable, modem/cell, LAN, or wireless radio that provides a Window-based interface for programming and monitoring.

The controller supports extensive features, such as flow management and the ability to operate decoders in random, multiple, or simultaneous order to minimize operation cycle time. The PROCOM series also supports weather station connection for advanced ET-based irrigation control.

The PROCOM controller can run up to 40 valves simultaneously, manage up to 16 pumps, monitor up to 10 flow sensors, and execute up to 30 schedules, each with 12 possible start times.

The PROCOM controller detects faults in the wiring like shorts and damaged insulation and upon detection turns off power and shows a warning. A special test menu gives access to the built-in facilities for testing and fault tracing.

The PROCOM comes standard with the PROCOM PRAS software for single controller programming and control. For multiple PROCOM controllers the PROCOM PRMS software is available, at additional charge, which supports up to 25 controllers.

PROCOM PWS weather station software supports the Campbell Scientific Weather Station.

System is upgradeable from 50-500 valves via PC Flash Upgrade.

The (c) version includes an external modem allowing for telephone communications.

ORDERING CONFIGURATIONS:

PROCOM XXX: (where XXX is 50, 100, 200, 300, 400 or 500 valve size), line termination box, serial cable with optical isolator, and 150VA power transformer.

PWS: consult factory for weather station ordering configurations.



PROCOM CONTROLLER SPECIFICATIONS

CONTROLLER SPECIFICATIONS:		Diagnostics	Field line monitoring for short circuit, line current, and solenoid ground fault.
Input Voltage	24 volts, 50/60Hz, 150VA		
Output Voltage	33 V square wave		
Battery Backup	Clock, calendar and installation data	SOFTWARE:	
Environment	Temperature: 41 F to 86 F Humidity: 20 to 80%	PRAS	Remote Access Software--standard. Remote access of a single controller, initialization and edit of installation data and irrigation schedules, transfer of controller collected data, extract and view logged data via Logviewer™ and Microsoft Excel®
Max Line Decoders	50 / 100 / 200 / 300 / 400 / 500	PRMS	Remote Multi-Site Software--optional Remote access and management of multiple sites (to 25)
Max Sensor Decoders	10	PWS	Weather Station Software Software supports both direct or modem connected weather station
Max Simultaneous Valves	40	OPTIONS:	
Max Schedules	30	FA-100	Field Access Unit
Valve Groups	150 sectors	RFA-100	Radio Field Access (450 MHz)
Application Methods	Time, Inches, ET	RFA-100P	Portable Field Access Unit
Irrigation Methods	Sequential--one at a time in order as listed Priority--in order as listed, as many as flow data allows Automatic--the Flow Optimizer calculates the optimum number and order to run	CAM-25	Controller Adaptor Module—adapts existing systems to Tucor controllers
Days	14	SC-25	System Conversion terminal—adapts existing wiring to a two-wire system
Start Times	12 per schedule	PDA-100	Palm Pilot software and serial interface cable with RS-232 adaptor
Start Methods	Day and time start	LAN-100	Interface and PC software for local area network connection
Run Time Increments	0 to 999 minutes in 1 minute	FS 100 – 400	Flow Sensors, 1” to 4” inline, 4” and up saddles
Dry Run	Simulation on PC screen	WM-100	Wireless Modem (900 MHz)
Monitoring Reports	View on screen, print with Logviewer	TR-100	Telephone-to-Radio modem
Water Budget	0 to 300%		
Pump Control booster)	16 pumps (1 master+ 15 booster)		
Manual Operation schedules	Individual decoders or		
Sensors	Rain sensor, Auxiliary sensor		
Alarms	High flow on system total Unscheduled flow		
Remote Operation	From PC via direct connect serial cable, telephone modem, LAN (internet) or wireless modem.		