

RKS+ Irrigation Controller



SPECIFICATION

BUSINESS FIELD

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



The **RKS+ Irrigation Controller** is a conventional irrigation controller with a station and scheduling capacity of 1-100 Stations and 10 programs.

The RKS+ was expressly designed for converting conventional systems to Tucor's exceptional remote management system. The RKS+ can operate up to 6 Stations simultaneously and up to 100 valves*. Our unique "Add-A-Zone" feature allows you to add Stations one at a time as your system grows. The RKS+'s simple, intuitive programming comes with a wealth of controller capabilities. Operations include up to 10 Programs running simultaneously; timing per valve in one-second increments; flow sensing; multiple alarm options; ET inputs; remote control via Internet either browser-based or locally; and many flow management methods.

*12 simultaneous with a second transformer.

Power and flexibility arise from:

- Mist Manager - configured as 100 programs, one valve per program, running in one second increments
- TCM - Total Cycle Management capability via IntellisET functionality utilizing Historic ET, Soil Moisture Sensor and Tipping Rain Bucket data.
- Learned Flow capability.
- FloStack™ - Program stacking based on station flow rates for up to 10 simultaneous programs.
- FloGuard - Alarm and control options based on flow monitoring.
- WebTurf- Remote app for smart phones
- Cycle Manager Control- Available in some markets

Conventional



RKS+ (in plastic enclosure)

RKS+ FEATURES

- Conventional
- 100 Stations, 10 Programs
- Proactive use of ET and Soil Moisture Data
- True, Real-time, web based control
- Learned flow, flow guard, and flow stack



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RKS+ Irrigation Controller



Specifications:

HARDWARE:

ELECTRICAL:

Input: 115 VAC, 50 VA

Output: 24 VAC

STATIONS:

1-100, priced in single station increments †

MAXIMUM SIMULTANEOUS ACTIVE VALVES:

6 max per cabinet, 12 max per system *

MASTER VALVES: 1, 10 second stop delay

BOOSTER PUMPS: 2, 10 second stop delay

CABINET:

Wall mounted locking poly-carbonate cabinet with internal Class 2 transformer

DIMENSIONS: 12 ¼" x 12" x 6 ½"

LIGHTNING PROTECTION: Built-in

VALVE OUTPUT:

24 VAC, 1.0 A per station max., 1.5 A total max.

Wiring between RKSXT-25's:

4 conductor crossed, dual RJ-11 jacks, 7' max

OPERATING FEATURES:

PROGRAMS:

10 + 1 test program

CONCURRENT PROGRAMS:

10

START TIMES:

12 per program, 1 - 99 repeats per start

CALENDAR:

14 days or Odd/Even

STATION RUN TIMES: 0-999 MINUTES:

1 second increments (< 4 minutes)

10 second increments (4 - 999 minutes)

WATER BUDGET:

0-250% @ 1% increments

PROGRAM MODES:

Active & Passive

START METHODS:

Auto, Manual by Program, Manual by Station

DISPLAY:

Monitors active programs, run times, and alarms

REMOTE MANAGEMENT:

- Via the Internet‡ or Smart Phone, and any web browser when the RKS+ is equipped with
- Tucor's WIN-200 module and GPRS service, or

- Tucor's LAN-200 with your own Local Area Network

- Remote line-of-sight radio operations (RFA 200) to enable valves and Programs

ET:

ET Capable (requires ET-300-W weather station or WR7-RK, or pre-programmed Historic) Local Weather Station: Pulses:

50 ms minimum width

2 pulses per second maximum

Maximum ET (prevent short run time)

Maximum ET (prevent run-off)

Maximum hourly rain (soil absorption)

Soil holding (save rain for next day)

ET period (definable start-of-day)

Historic Data (interpolated)

MISCELLANEOUS:

- Rain Sensor terminals

- Flow sensor inputs at controller, with:

- Alarms: High, Unscheduled, Deviation, Main Pump Failure; adjustable delay (1 - 10 minutes)

Learn flow per Station

Flow Sensor input maximum 250 pulses/second

How to Order:

RKS+ IRRIGATION CONTROLLER

Part Number	Product Description
Link Wireless Flow Gateway	
RKS+	RKW+ Controller in 12" plastic enclosure, 1-25 Zones, wireless
RKSXT-25	1-25 zone extension assembly
RKS-Z	License Key, per individual zone
ET-300	Weather Station
SMS/SMP	Moisture Sensors

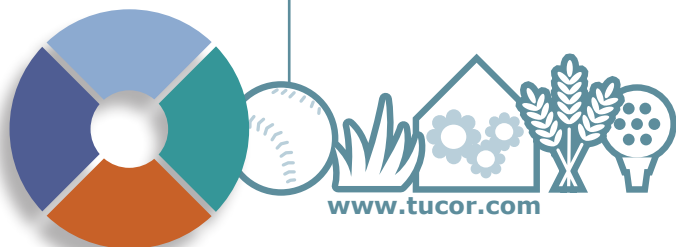
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More information:

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*Each cabinet of 25 Stations can operate 6 Stations simultaneously, given industry standard 0.25A per station, up to 12 Stations max for the system: 1 in each of 10 Programs and 2 in Manual mode. † Stations from 26-50, 51-75, and 76-100 each require an additional NEMA enclosure. ‡ Requires yearly subscription for Tucor's Server access. Smart App requires Java.