

RKD+ Irrigation Controller



SPECIFICATION

BUSINESS FIELD

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



The **RKD+ Irrigation Controller** is a decoder-based, 2-wire irrigation controller with a station and scheduling capacity of 1-100 Stations and 10 programs.

The RKD+ uses the RKL0-050 programmable line decoder, which can be addressed and tested at the controller. Integrated diagnostics test for decoder operation as well as the 2-wire path conditions.

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.

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



Tucor, Inc.
330 Perry Highway
Harmony, PA 16037

TEL: 800-272-7472
FAX: 724-935-8233

tucormail@tucor.com
www.tucor.com

2-Wire, Decoder-based Controller



RKD+ (in plastic enclosure)

RKD+ 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
- 10 simultaneous programs
2 Booster, 1 Master Valve, 2 manually started for a total of 15 simultaneous operated decoders

RKD+ Irrigation Controller



Specifications:

HARDWARE:

ELECTRICAL INPUT: Input: 115 VAC, 50 VA; Output: 24 VAC
 MAXIMUM STATIONS: 100
 MAXIMUM ACTIVE VALVES: 12 *
 MASTER VALVES: 1 (enabled at any decoder action)
 BOOSTER PUMPS: 2 (assigned to Program, 1 per Program)
 CABINET: Poly-carbonate cabinet with internal transformer
 DIMENSIONS: 12 ¼" x 12" x 6 ½"
 LIGHTNING PROTECTION: Built-in (controller only: 2-wire requires Tucor's SP-100s)
 MAX. WIRE RUN *: 12,500' with #14/2, 4,900' with #18/2

OPERATING FEATURES:

PROGRAMS: 10 + 1 test program
 CONCURRENT PROGRAMS: 10
 START TIMES: 12 per program
 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, line conditions, and Alarms
 DECODERS: RKLD-050, addressed and tested at controller
 DIAGNOSTICS:
 DECODER TEST: Pass/Fail, in the field
 SHORT TEST: Permits measurement of the 2 wire condition
 LINE SURVEY: Displays 2-wire voltage and current

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 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
- Learn flow per Station
- ET Capable (requires subscription or ET-300-W weather station)
- Adjustable valve power output
- Remote line-of-sight radio operations (RK RFA 200)

How to Order:

RKD+ IRRIGATION CONTROLLER	
Part Number	Product Description
Link Wireless Flow Gateway	
RKD+	RKD+ Controller in 12" plastic enclosure, 1-100 stations
RKD-SS	RKD+ Controller in 12" stainless enclosure
RKD-SSx	RKD+ Controller in 20" stainless enclosure
ET-300	Weather Station
SMS/SMP	Moisture Sensors

* Requires yearly subscription for Tucor's Server access. Smart App requires Java.

Contact Tucor:
 Tel: 800-272-7472
 tucormail@tucor.com

More information:
www.tucor.com

