



**Smart Irrigation**  
From the Ground Up

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www.tucor.com

**THE RKD IS A STAND-ALONE**, decoder-based, 2-wire controller supporting from 1-100 Stations (valves). It can operate up to 12 Stations simultaneously and run 10 Programs concurrently.

The RKD uses the RKLD-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.

Extraordinary flexibility for this inexpensive 2-wire controller is ensured by:

- Mist Manager – Valve operations controllable in 1 second increments
- FloStack™ – Program stacking based on flow for up to 10 simultaneous Programs
- RealNet – Real-time, Internet-based water management via GPRS wireless or a LAN
- IntellisET – Smart irrigation using a host of ET-based capabilities
- FloGuard – Alarm and control options based on flow monitoring

# SPECIFICATIONS

## 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:

NEMA 4 rated locking metal cabinet with internal transformer

## DIMENSIONS:

12" H x 12" W x 5" D (approx)

## 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



*The RKD stand-alone 2-Wire controller supports from 1-100 valves*

## 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

## 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 WR7-RK or ET-300-W weather station)
- Adjustable valve power output
- Remote line-of-sight radio operations (RK-RFA-200)

\*Using default valve power and 4 valves simultaneously. Running fewer valves simultaneously will increase maximum distance (to 17,800'); more valves simultaneously will decrease distance. Using a different valve power, changing the specified wiring type, valve distribution or connectors may reduce the number of simultaneous active stations.