



# RKD – Decoder Controller

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
- Intellisist – 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

**BOOSTER PUMPS:**

2 (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:**

Addressed and tested at controller

**DIAGNOSTICS:**

**DECODER TEST:**

Pass/Fail

**SHORT TEST:**

Checks line 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 WR-7RKD or ET-200 weather station)
- Adjustable valve power output
- Test probe for 2-wire troubleshooting
- Remote line-of-sight radio operations (RFA-200)
- Spanish or English display selectable

\*Using default valve power and 4 valves simultaneously. Fewer valves simultaneously will increase max. 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 result in diminished capability of active stations.