

RX20 Valve Control & Water Metering Module



Integrated Modbus Valve Control & Water Metering in One Compact Module

The Ranch Systems RX20 provides a simple interface between Modbus host systems and field-installed metering and control equipment. A dedicated counter input supports compatible pulse-output meters, while the DC latching output provides efficient control of compatible latching valves.

Key Features & Benefits

- Solenoid valve control (DC latching)
- Digital pulse counting with supercapacitor backup
- Monitoring and control in one device
- Easy integration with existing systems
- Ideal for pulse-output meters
- Provides remote device control
- Designed for distributed installations

Typical Applications

- Commercial water metering & valve control
- Leak detection & automatic water shutoff
- Building water submetering
- Water treatment & filtration systems
- Rainwater, greywater & water reuse systems

Specifications

Power

Input Voltage	12VDC
Consumption	<1mA, typical (Brief surge currents of ~300mA during supercapacitor charging)

Communications

Protocol	Modbus RTU ID programmable via holding register
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Control Output

Number of Ports	1
Type	DC Latching
Compatible Valves	+/- 9-12V Typical DC Solenoid
Connection	Terminal Block

Sensor Input

Number of Ports	1
Type	0-100 Hz Pulse Counter w/Supercap Backup
Compatible Meters	Dry Contact & Reed Switch
Connection	Terminal Block

Other

Enclosure	PA66 Plastic w/Silicone Gasket & Sealing Rings
Dimensions	4.83 x 3.24 x 1.67 in. (122.8 x 82.3 x 42.5 mm)
Enclosure IP Rating	IP68
Operating Temperature	-40°F to 185°F (-40°C to 85°C)
Assembled Weight	0.6 lbs (0.27 kg)