APPLICATIONS
- Irrigation & valve controls
- Water meter monitoring
- Watermark automation
- Applications requiring more sensor inputs than available on the RM210 or RS300

FEATURES
- Connects to any RM210 or RS300
- Four (4) NEMA 4-wire glands for sensor/relay wiring
- Supports up to four (4) analog or digital sensors
- Supports up to four (4) valves or relays
- Stand-alone micro-controller and analog/digital converter ensures accurate readings and eliminates cable loss
- Each 24V 1A relay can be configured for N.O. isolated switch or DC latching valve control
- When connected via RS-485, up to 15 RX300 units can be daisy-chained, for a total of up to 60 sensors and 60 relays over a distance of up to 1000ft
- Supports up to three (3) Watermark soil moisture sensors
- Counter capability on 4 ports (rain gauges and flow meters)
- All connections use push-button terminal blocks
- Remains in standby mode unless receiving commands from the host unit, such as retrieving sensor readings or activating relays

Sensor Inputs
Analog Sensor ADC Resolution: 12-bit
Analog Voltage Range: 0 to 5VDC
Digital Counter Frequency Range: 0Hz to 10Hz
Digital Counter Power/Excitation: Optional constant excitation
Frequency Input Range: 0Hz to 10kHz
Frequency Input Power/Excitation: Optional constant excitation, typically 50 mS
Irrometer Watermark Ports Accepted: Ports 1-3
Irrometer Watermark Isolation: 100% (relay switched)
Connectors: Push-type terminals
Configuration: Sensor inputs require node port configuration

Control Outputs
N.O. Switch Maximum Voltage: 24V
N.O. Switch Maximum Current: 2 Amp
DC Latching Maximum Voltage: 12VDC
DC Latching Maximum Current: 2 Amp (inrush)
DC Latching Excitation Time: 100 mS (typical)
Connectors: Push-type terminals
Configuration: Outputs configured via on-board jumpers

Hardware
Operating Temperature: -40°F to 158°F (-40°C to 70°C)
Dimensions (H x W x D): 6.25 x 4 x 3.25 inches
                        (158.8 x 101.6 x 82.6mm)

SPECIFICATIONS
Host Unit Connection
Connection Type
RX300-232: Includes a 10ft RS-232 cable with 6-pin female connector
        Can be extended up to approximately 35ft
        Does not support daisy-chain configuration
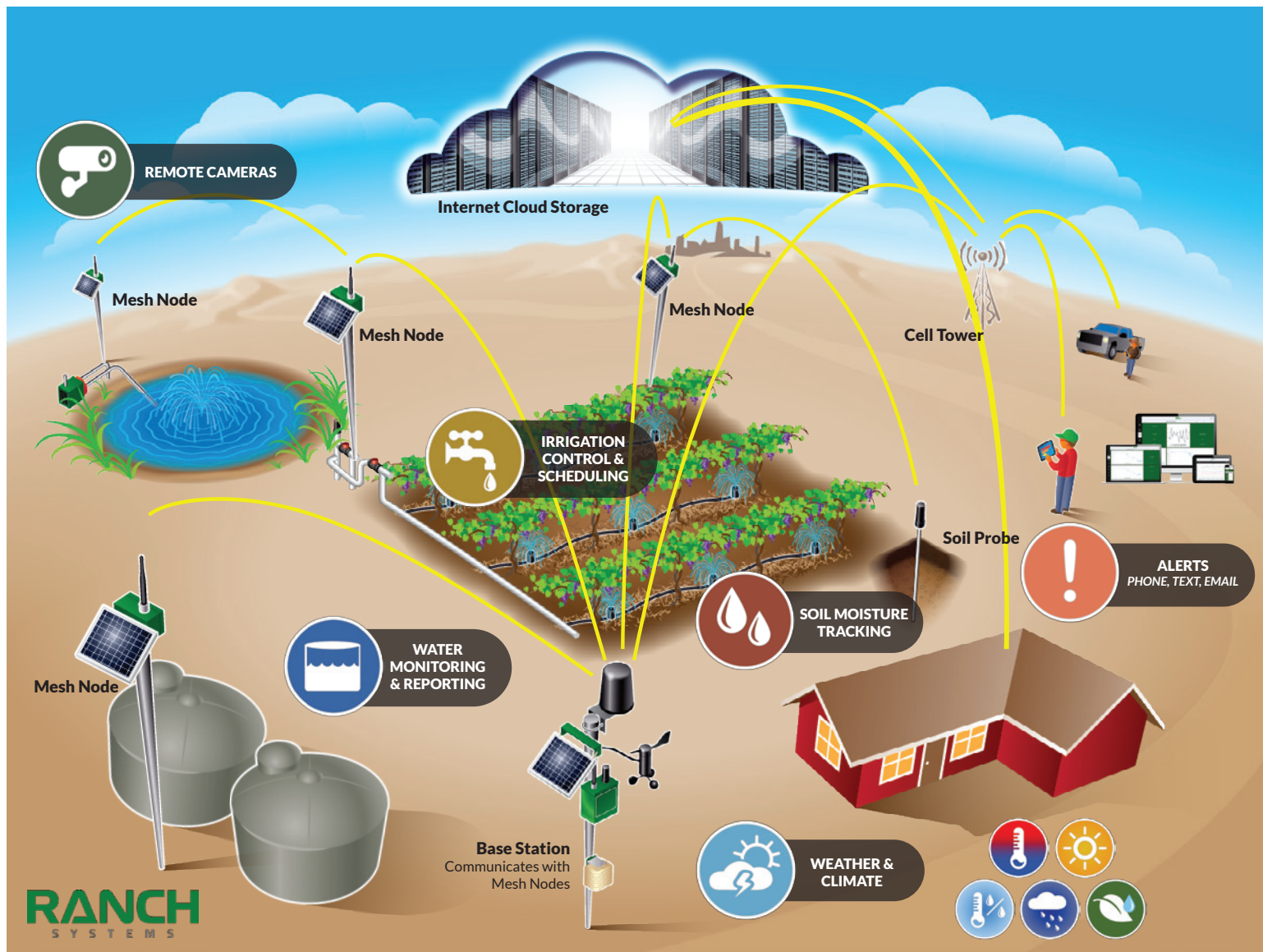RX300-485: Includes a 10ft RS-485 cable with 4-pin male connector
        Can be extended up to 1000ft (including daisy-chained units)
        Up to 15 units can be daisy-chained using Y-adapter cables
Connectors: Unless specified otherwise, all input and communication ports utilize SwitchCraft/Conxall Micro-Con connectors.

RANCH NETWORK MAP

REMOTE CAMERAS

Internet Cloud Storage

Mesh Node

Mesh Node

Mesh Node

Cell Tower

IRRIGATION CONTROL & SCHEDULING

Soil Probe

ALERTS
PHONE, TEXT, EMAIL

Mesh Node

WATER MONITORING & REPORTING

SOIL MOISTURE TRACKING

RANCH
SYSTEMS

Base Station
Communicates with Mesh Nodes

WEATHER & CLIMATE

UNITS

RS130

RM210

RS300

RL200

RX300

Telemetry Units ---

Expansion Units ---