



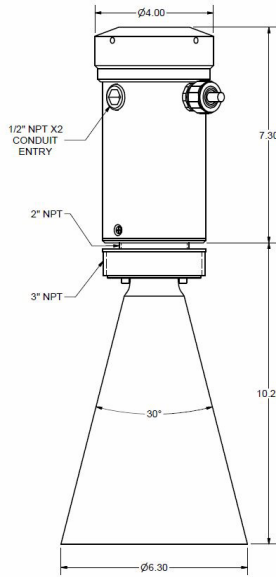
Sensing Solutions since 1959

# R4 Series Technical Data Sheet

## Radar Level Sensors



R4-100R2R6



### Applications

- Dual frequency continuous level measurement over larger ranges of liquids containing sludge, biomass, dust, foam and coatings
- Also used for open channel flow and uneven, dusty solids such as gravel and aggregates
- 6.3 GHz and 26 GHz options
- 33, 50 and 100 ft range options

### Custom Solutions

At times, OEMs, end users or military specifiers require a customized solution or sample product to test. Madison Company can design, manufacture and ship a custom switch or sensor in just six business days. Simply communicate the quantity and requirements to our technical sales staff. We will quote the product to establish budget and ROI. Following the quote approval, Madison engineers will design the switch or sensor that satisfies the application specifications, and provide proof of concept. Upon approval, we will build and ship the product or sample.

### Related Products



R4-50R2R6



R4-50R2R6

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# R4 Series Technical Data Sheet

## Radar Level Sensors

| Radar Level Sensor Specifications |                      |              |                  |               |               |                            |                  |         |               |
|-----------------------------------|----------------------|--------------|------------------|---------------|---------------|----------------------------|------------------|---------|---------------|
| Model                             | Accuracy             | Approvals    | Frequency        | Input Voltage | Max. Pressure | Max. Temp                  | Mounting         | Output  | Sensing Range |
| R4-100R2R6                        | ±0.25% of Full Scale | FCC, FM, CSA | 6.3 GHz & 26 GHz | 115 VAC       | 72.5 PSI      | -40 to 140°F (-40 to 60°C) | 2" NPT Pipe Plug | 4-20 mA | 100' (30.5 m) |
| R4-33R2R6                         | ±0.25% of Full Scale | FCC, FM, CSA | 6.3 GHz & 26 GHz | 115 VAC       | 72.5 PSI      | -40 to 140°F (-40 to 60°C) | 2" NPT Pipe Plug | 4-20 mA | 33' (10 m)    |
| R4-50R2R6                         | ±0.25% of Full Scale | FCC, FM, CSA | 6.3 GHz & 26 GHz | 115 VAC       | 72.5 PSI      | -40 to 140°F (-40 to 60°C) | 2" NPT Pipe Plug | 4-20 mA | 50' (15.2 m)  |

| Model      | Beam Angle | Calibration   | Ingress Protection | Other Wetted Materials | Resolution | Transmitter Power |
|------------|------------|---|--------------------|------------------------|------------|-------------------|
| R4-100R2R6 | 10°        | Programmable via communications port or Push Button | NEMA 6 (IP68)      | Aluminum               | ± 0.1"     | Pulse Radar       |
| R4-33R2R6  | 10°        | Programmable via communications port or Push Button | NEMA 6 (IP68)      | Aluminum               | ± 0.1"     | Pulse Radar       |
| R4-50R2R6  | 10°        | Programmable via communications port or Push Button | NEMA 6 (IP68)      | Aluminum               | ± 0.1"     | Pulse Radar       |

Response Time: Standard Unit 2-3 echos per second. Standard with less damping 6 echos per second. Fast Protocol Unit 10-30 echos per second.

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