



S-UCD-M001 Sensor

Contact Closure Pulse Input Adapter - 1 meter Sensor

The Contact Closure Pulse Input Adapter connects sensors with pulse outputs to data loggers with smart-sensor inputs. This smart sensor is compatible with contact closures, such as tipping-bucket rain gauges or reed switches with a maximum input frequency of 2 Hz (2 pulses per second), and a preferred switch-type of normally-open. See how the pulse recorder works.

Supported Measurements:

Pulse Input and Water Flow

Key Advantages:

- Plug-n-play adapter for pulse output sensors
- Automatically recognized by H21, H22, U30, and ZW data loggers
- Compatible with contact closures, such as tipping-bucket rain gauges or reed switches with a maximum input frequency of 2 Hz (2 pulses per second)



S-UCD-M001 Sensor Specifications

Maximum input frequency: 2 Hz (2 pulses per second)

Measurement range: 0 – 65,533 pulses per logging interval

Resolution: 1 pulse

Lockout time: 327 ms \pm 10%

Recommended input type: Mechanical contact closure (example: reed switch in a tipping-bucket rain gauge)

Preferred switch state: Active low input Normally open

Edge detection: Falling edge, Schmitt Trigger buffer (logic levels: low \leq 0.6 V, high \geq 2.7 V)

Minimum pulse width: 1 ms

Input/output impedance: 100 K

Open circuit input voltage: 3.3 V

Maximum input voltage: 3.6 V

User connection: 24 AWG wires, 2 leads: white(+), black(-)

Operating temperature range: -40° to 75°C (-40° to 167°F)

Overall cable length: 1 m (3.3 ft.)

Housing: Weatherproof PVC housing protects input adapter electronics

Housing dimensions: 14 x 0.95 cm (5.5 x 0.375 in.)

Weight: 310 g (11 oz.)

Bits per sample: 16

Number of data channels: 1

Measurement averaging option: No (reports the number of pulses over the logging interval)