



## 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)