



**Track mounted transmitter**

## DESCRIPTION & FEATURES

The RLT converts the output of a tipping bucket rain gauge to a 4-20 mA signal. The RLT rain gauge is fabricated of heavy duty PVC, aluminum and stainless steel. It consists of an outer funnel, screen, inner funnel and tipping bucket. Precipitation entering the collection orifice fills the calibrated tipping bucket assembly. When the bucket fills to the calibrated amount, the bucket tips. Another bucket is brought into place and the precipitation sample is discharged through the dump tubes to the ground below. This produces a switch closure which is detected by the electronics in the separate transmitter. The 4-20 mA transmitter board is track mounted and powered by the milliamp loop. Each tip of the bucket causes the output signal to increase 1% of full scale. The rain gauge range is 0-1.00" over the 4-20 mA output. The transmitter will reset after 100 bucket tips or 1" of precipitation.



**Rain Gauge**

## ORDERING INFO

### PART NUMBER

RLT ..... Rainfall Gauge with 20' 2 conductor cable and 4-20 mA transmitter

### ACCESSORIES

SA2W ..... Wall mount 2 wire Surge/Lightning Arrestor

SA4W ..... Wall mount 4 wire Surge/Lightning Arrestor

DK191 ..... Loop Powered Display Series

DK190F ..... Loop Powered Display

DK807/907 ..... Loop Powered Display Series

BDR-924/999 ..... 4-20 mA Controlled Display Series

PW1.0 ..... Power Supply

PW1.5 ..... Power Supply

PW2-24 ..... Power Supply

CVC ..... 4-20 mA Calibrator

## SPECIFICATIONS

|                          |   |
|--------------------------|---|
| Range:                   | 0-1.00" = 4-20 mA output  |
| Electronics Accuracy:    | +/-1%   |
| Rain Gauge Accuracy:     | +/-4%   |
| Transmitter Dimensions:  | Track Mount 2.5"W x 6.25"L x 1.5"H                                      |
| Rain Gauge Dimensions:   | 8.4" Diameter x 12.0"H  |
| Shipping Weight:         | 8 lbs.  |
| Operating Temperature:   | Rain Gauge -40 to 60° C<br>Transmitter 0 to 60° C                       |
| Transmitter Connections: | Screw terminals for 12AWG or smaller                                    |
| Transmitter Power:       | Powered by the 4-20 mA loop current                                     |
| Rain Gauge Mounting:     | 3 equally spaced legs with 1/4" bolt holes on 9.5" diameter bolt circle |
| Accessories:             | Surge/Lightning Arrestors   |

