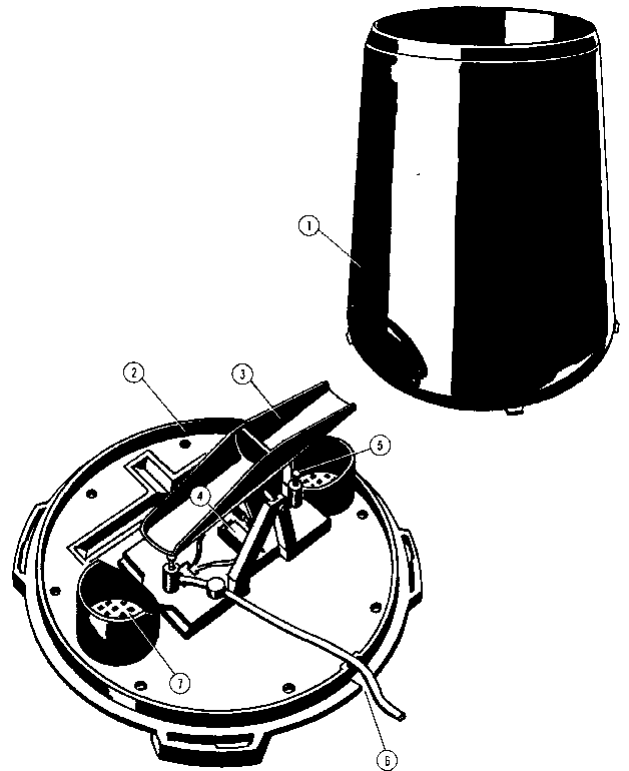


RAIN COLLECTOR RC7852M

Description

The RAIN COLLECTOR RC7852M is used to monitor rain activity for instantaneous rain intensity or accumulative measurements. The construction consists of a funnel shaped collector "bucket" with a small drain opening. Water is drained into a tipping mechanism that produces a reed contact closure with each tip action. The higher the rain intensity, the more pulses (contact closures) are produced.

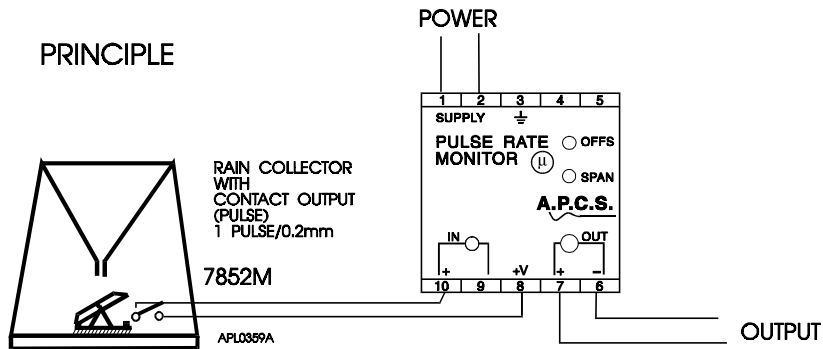


Specification

Sensing element: Tipping bucket
 Output type: Reed contact
 Size:
 Height: 245mm
 Top Diameter: 165mm
 Bottom Diameter: 205mm
 Output signal: 1 pulse/ 0.2mm rain
 Maximum intensity: 720mm/h (1 pulse/sec).

Example for output calculation: 50mm rain/hour $\frac{50}{0.2} = 250P / HR = 4.166P / min$

Rain-Intensity Measurement Application



This application uses the pulse output from the rain collector and converts it to an analogue signal using the PRM180. The flip-bucket tips for each 0.2mm of rain, producing a contact closure.

A typical calibration would be for a scale of 0 - 100mm/Hour we would get 0-500 P/Hour. The PRM180 can convert this to 4-20mA out.

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