



Digital Rain Gauge

| Meteorological Instrument

☰ Details Info

This instrument meets People's Republic of water conservancy and hydropower industry standard SL21-1990 "precipitation observing practices," "long-term self-recording type rain gauge"

Sense of rain this instrument sensitivity, accuracy, scope of rainfall intensity gauges are better than other forms, suitable equipment, northern environmental conditions of various types of dust rainfall stations.

Features

- sense of rain with high sensitivity (0.07mm).
- high accuracy.
- equipment installation, adjustment, calibration method is simple,
- high intelligence, easy maintenance.
- There Pulse (per 0.1mm rainfall) output and RS-485 real-time rainfall total output can be directly with data acquisition, RTU, computer or other host devices, high precision automatic data acquisition and transmission.

Use of 3

Technical performance of this instrument is much higher than the international and domestic current rain sensor, suitable for equipment parts, under different climatic conditions, the state's basic rainfall stations, encryption automatic weather (rainfall stations) and telemetry stations, auto-complete the precipitation process measurement and data collection, especially for an alternative to traditional paper record siphon rain gauge, make existing siphon rainfall station unattended and automated data integration, automatic transmission.

4 The main technical parameters

4.1 Order of rain Diameter: $\Phi 200 \pm 0.60$ mm, edge acute angle $40 \sim 45^\circ$;

4.2 Resolution: 0.1mm;

4.3 Rainfall intensity measurement range: 0.01 ~ 8mm/min (mm / min)

4.4 Measurement accuracy (at 0.01 ~ 8mm/min rainfall intensity range): precipitation <10mm, measurement error: $\pm 0.2\text{mm}$; precipitation $\geq 10\text{mm}$, measurement error: $\pm (0.2\text{mm} + 1\% \text{FS})$;

4.5 Output signal: 1) RS-485 interface, the output real-time cumulative rainfall, rainfall encoder true value, the related alarm signal (see Appendix JFZ-01 digital rain sensor RS-485 interface communication protocol);

2) pulse interface, 0.1mm rainfall each connected to a relay output contacts, on-time of 100ms, the minimum interval of 400ms, contact capacity $\leq 24\text{VDC}/0.2\text{A}$;

4.6 Record rainfall storage capacity (optional): greater than 3000mm or more than 1.5 years.

4.7 Power Supply Voltage: 12VDC $\pm 15\%$

4.8 Operating temperature: 0 ~ +50 °C;

4.9 Humidity: $\leq 95\% \text{RH}$ (40 °C);

4.10 volumes (diameter \times height): $\Phi 220 \times 560\text{mm}$;

4.11 Weight: 4Kg.



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