Meteorological Instruments







Product Introduction

RK-ARG-5 having the industrial grade micro controller ensure the reliability, accuracy and continuous performance in the toughest weather condition. **RK-ARG-5** is the best choice for the research works in the market. Design makes easy to installed by one person and reduce the transportation cost. Automatic Rain Gauge all model comes with the tripod stand, solar panel and battery an intelligent solar and AC power circuit make the system self-powered.

Automatic Rain Gauge having the facility of the measuring the Logger Encloser Temperature, Rainfall. All the above model measuring the Data logger for the collection of real time data automatically. **16** X **2** alphanumeric display and **1** X **4** keypad is provided at front of data logger for programming data logger and monitoring sensor reading at site without the help of computer.

RK-ARG-5 rain gauge comes with the FAT certification and FAT calibrated Tipping bucket rain gauge.

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Data Logger View				
PROFESSINAL LINE	SPECIFICATION			
Model	Compact-datalogger version v-21.7			
Display	16 Characters x 2 Lines alphanumeric display			
Measured Parameter	Date, Time, Rainfall (mm), Temperature (°C), Battery (volts)			
Real Time Clock	Stability long-term: ±1 ppm / year			
	Stability (temperature): ±3.5 ppm or better form -40° to 85°C			
Logging Rate	1 min to 1 hours			
Data Storage	16 GB (sufficient for more than 2 years of logging in 1 min. logging rate)			
Power supply	5 volts			
Battery Life	< 3 years in continuous operation			
Clock accuracy	±2 seconds per year			
Battery Charging	Through solar panel or 220 Volts AC			
IP rating	IP 65			
Operating Temp.	-40°C to 75 °C			
Operation Humidity	0 to 95% no-condensing			
Data Retrieval	SD Card and RS 485 (Optional) No need of any software direct copy and past			
Data Transmission	GPRS telemetry or WIFI in IOT (optional)			
Watchdog timer	System Reset Upon Microprocessor Failure			
Weatherproof encl.	IP 67 weatherproof enclosure provides Optional			

Battery Charges and Battery				
PROFESSINAL LINE	SPECIFICATION			
Model	BC-life6			
Output Voltage	5 Volts DC			
Protection	Reverse Polarity			
	Battery over Charge Protection			
	Battery over Discharged Protection			
Battery Charging	Provided Inbuild solar charging Circuit through solar panel (6 V, 6 watts)			
	220 volts AC supply (optional)			
Battery Life	More than 2 years			
Advance Feature	Soft Start Charging or good health of battery			
	Battery Temperature measurement inside			
	Disconnect charging when temperature of batter goes high than normal			



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SENSOR SPECIFICATION					
RAIN GAUGE	PROFESSINAL LINE	SPECIFICATION			
	Туре	Tipping Bucket Self Empty			
	Measuring intensity	~ 700 mm/ hours			
	Accuracy of rain gauge	100 mm / hour; better than ±4%			
	Rain Gauge Diameter	5 inches			
	Collection area	127 cm ²			
	Design	Aerocon for remove the wind effect			
	Resolution	0.254 mm or 0.20 mm			
	Operating condition	0°C to +70 °C / 0100 %			
	Output	Switch / pulse output			
	Material	ABS			
	Capacity	Unlimited			
Ontional Sonsor for Amb	ient Air Temp and Humidity Moni	toring			
TEMP. AND HUMIDITRY	PROFESSINAL LINE	SPECIFICATION	AIR PRESSURE		
TEMF. AND HOMIDITAL		-40° C to 123 ° C	AIN I NESSONE		
	Measuring range temperature Measuring humidity	0 to 100 %			
	Accuracy temperature	± 0.3 ° C @ 5 to 40° C	N 12 2 1 2 1 1 1		
	Accuracy rel. humidity	± 2% @ 20 to 80 %			
	Resolution of temperature	0.01 ° C Typical			
	Resolution rel. humidity	0.05 % RH Typical			
	Operating condition	-40°C to +70 °C @ 0100 %			
	Supply voltage	0 to 5 volts			
	Weather shield	IP 65 provided	()25		
	Dew point	Calculated Provided			
	Measuring range air pressure	300 hPa ~ 1100 hPa			
	Accuracy air pressure	±0.12hPa or better			







