

DATA LOGGER

The Data Logger is a compact, reliable device designed to collect data from weather sensors such as the Radiation Shield and Rain Gauge. It stores measurements locally and transmits them to the cloud through mobile networks (Internet or SMS), ensuring continuous data availability and real-time remote monitoring. Built with a durable ABS enclosure and equipped with external antenna options for strong signal reception, the Data Logger is optimized for outdoor environments. Its flexible power options, including battery and solar, allow deployment in remote locations where grid power or Wi-Fi connectivity is not available. This makes it an ideal solution for weather stations, smart agriculture, and remote environmental monitoring applications.



FEATURES

- 4G Dual sim connectivity
- Built-in 25 to 30-day data backup with GPS support
- Supports modern protocols (HTTP, HTTPS, MQTT, FTP)
- Rugged IP66 enclosure for harsh outdoor environments
- Solar and battery-powered option for remote sites
- Inbuild Real Time clock

SPECIFICATIONS

Material	Acrylonitrile Butadiene Styrene
Function	Sends sensor data to the cloud via mobile network
Communication Protocols	I2C, SPI, UART, RS232, RS485, ADC
Antenna	Built in LTE and GPS Antennas
Power Supply	Battery / Solar (depending on deployment)
Operating Temperature	-40 °C to +85 °C (typical)
Mounting Options	2 Mounting Plates with hose clamp
Data Storage	SD Card & Cloud Database

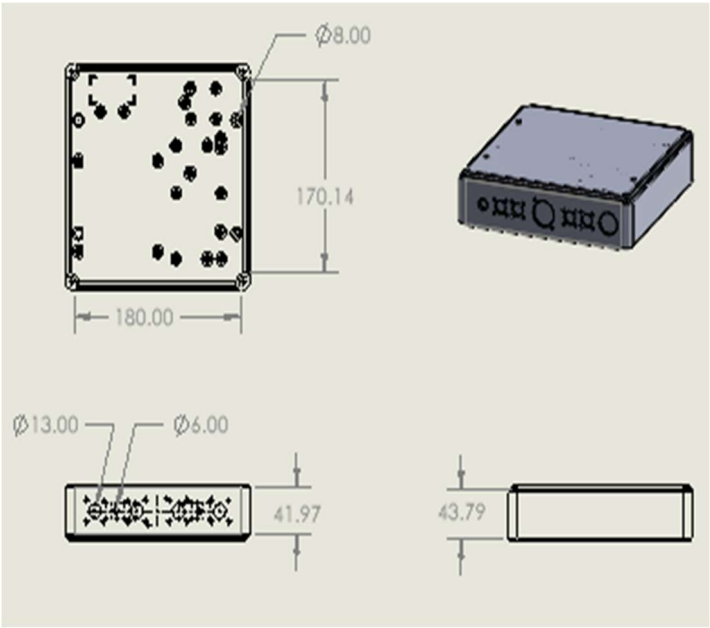
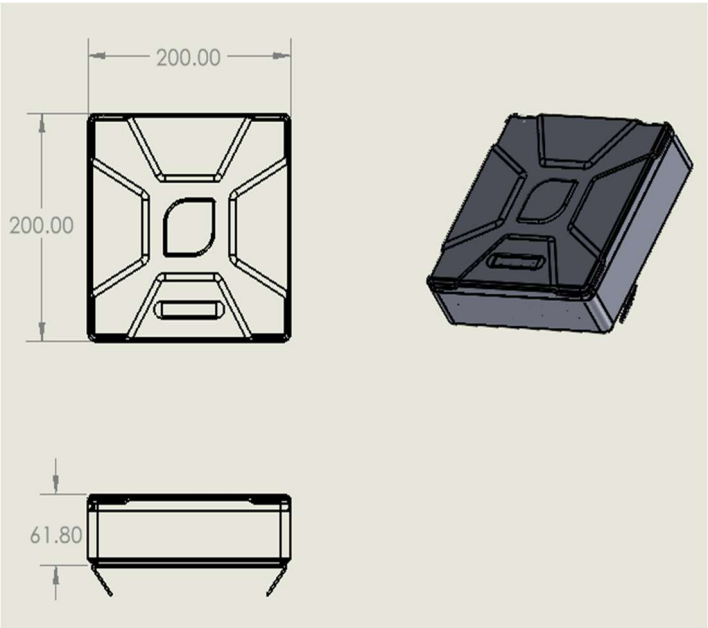
APPLICATIONS

- Remote weather monitoring stations
- Smart agriculture & irrigation management
- Disaster management and early warning systems
- Industrial & environmental monitoring
- Smart cities & IoT projects

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ENCLOSURE SPECIFICATIONS

Material	Acrylonitrile Butadiene Styrene (suitable for outdoor use)
Ingress Protection	IP65 (dust-tight, protected against low-pressure water jets)
Dimensions	200*200*63.5 mm
Weight	1.45kg
Color	Glossy White (for minimal solar heating)
Mounting Options	Pole-mount with stainless steel brackets
Cable Entry	Weather-sealed PG7 / PG9 glands for sensor & power cables
UV Resistance	Rated for > 5 years outdoor exposure
Antenna Support	External SMA connector provision for GSM/LTE/GPS antenna



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