Lafuma®

Automatic Weather monitoring system

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An Integrated Metering Solution

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QES-WMS-01 Weather Stations are highly sophisticated monitoring & logging of intrinsic weather conditions like temperature, barometric pressure, wind direction, wind speed, wind chill and other optional parameters according to your requirements.
Application areas include agriculture, hydrology, ecology and meteorology. For any sort of customized application, Itechflow Pvt Ltd can give assistance to select the best blend of sensors, data logger and accessories accordingly.

Product Features

Solar panel with Battery
Compatible to charge internal battery using solar power.

Compact
Compact and lightweight system suitable for installation at a height of more than 3m

Weather Resistant
IP67 Grade (certified) enclosure for endurance against harsh weather conditions.

Real-Time Data
Real-time data transfer with customizable intervals and ongoing monitoring.

Network
Supports a wide range of connectivity options like GSM / GPRS / Wi-Fi / Ethernet / Modbus.

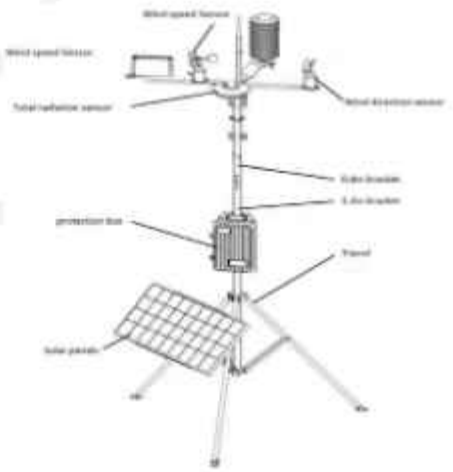
Internal Storage
Internal data storage capacity of up to 8GB or 5year data storage

Main Specifications

Wind speed	Measuring Range	0~70m/s
	Accuracy	±(0.3+0.03V) m/s
	Resolution	0.1m/s
Temperature	Measuring Range	-50~65℃
	Accuracy	0.1℃
	Resolution	±0.1℃
Wind direction	Measuring Range	0~360°
	Accuracy	±3°
	Resolution	≤0.5m/s
Relative Humidity	Measuring Range	0~100%RH
	Accuracy	0.5%RH
	Resolution	±1%RH
Rain Fall	MeasuringRange	0-4mm/min
	Accuracy	±4%
	Resolution	0.2mm
Barometric pressure	Measuring	10-1100hpa
	Range	±0.3hpa
	Resolution	Resolution 0.1hpa
Solar Radiation	MeasuringRange	1-1600W/㎡
	Accuracy	±5%
	Resolution	1W/㎡

Item	Connectivity	Specification
Wireless	GSM	Global 2G / 3G
		AP & Station Mode
Wired		Static Configuration
		RS485 RTU

Sensor size



Mechanical

Material	ABS, SS316, Mild-steel
Certifications	CE, FCC, TUV, RoHS
Size	280mm (H) x 180mm (W) x 120mm (D)
Weight	7.6 Kg (instrument weight)

Electrical

Power Input Options	AC: External 110-240V AC, 50-60Hz
	DC: Uninterrupted 24V DC, 2 Ampere 60 Watt 24V Solar Panel
Battery Backup Time	UPTO 2DAYS

Cloud

Deployed on AWS with the URL: qenggonline.com

Unique user id and password provided by QESPL for data visualization. Report generation, user profile, and device management are some feature of QESPL dashboard.

Environmental

Operating Temperature	-20 ℃ to 60 ℃
Operating Humidity	0-93% RH
Recommended Humidity	15-90% RH

Tools and Material needed for Installation

In addition to the enclosed components, you will need the following tools and materials to complete the installation. Please be sure you have everything you need before proceeding with the installation.

- Cable clips or weather resistant cable ties—with screw holes or other means for mounting.
- Small and medium-sized screwdrivers.
- Hand-held magnetic compass or local area map.
- Hammer.

Optional Tools and Materials

- 12-volt | 7.2Ah lead acid battery to be used as backup power supply.
- Carpenter's level to level the anemometer base.
- Electric drill with 3/16" (4.8mm) and/or 29(0.136" or3.5mm) drill bits to drill pilot holes.
- Electric tape if mounting the anemometer on metal mast or pipe.
- 2 stainless steel hose clamps if mounting the anemometer on pipe with Diameter Greater than 1 1/4" (32 mm).
- Standard switch box if mounting the console with the wires running inside the Wall.
- Medium Phillips screwdriver if mounting the console on a wall.

Optional Accessories

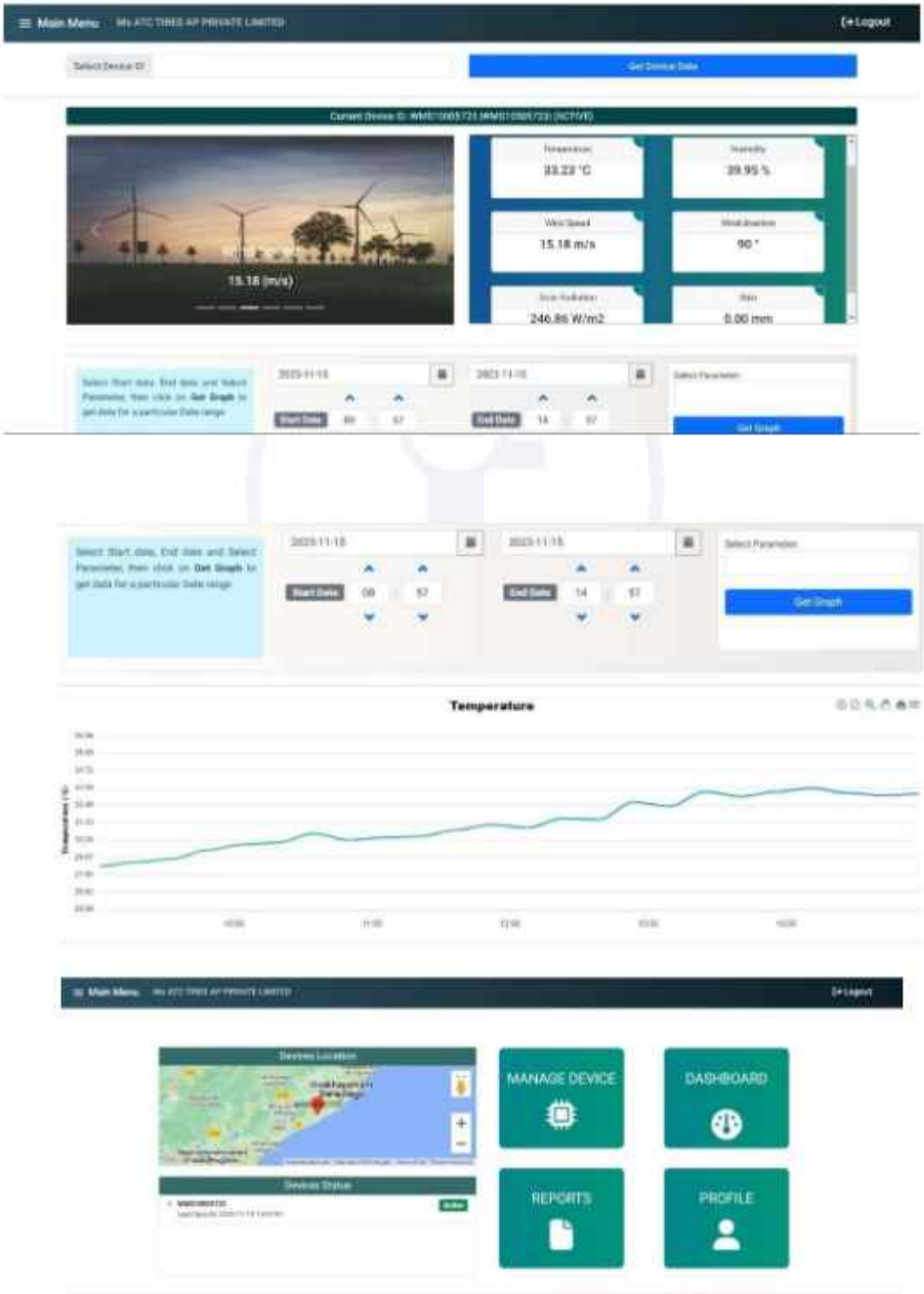
The following accessories are designed for use with the Weather Station Lafuma-WSU-623.

- The standard external temperature sensor, allows you to measure outside humidity addition to temperature.
- Rain Collector enables you to measure daily and accumulated rainfall. Separate models measure rainfall in either 0.01 inch or 0.2 mm increments.
- Weather Software which integrated in the mother board accesses the GSM modem built in, to log the data through Data Logger and generates reports and graphical displays of your weather data in the server using API protocol. • Sensor Mounting Arm, A single-location mounting option for all your sensors. Includes positioning for anemometer, external temperature or temperature/humidity sensor (with Radiation Shield), and Rain Collector (with Rain Collector Shelf).
- Radiation Shield protects the temperature or temperature/humidity sensor from the sun and the effects of radiated and reflected heat. Increases the life of the sensor and the accuracy of the readings.
- IP65 under IEC529 rating Ingress protection Junction Box-Enclosure Provides upgraded protection against radio frequency interference (RFI), electrostatic discharges (ESD), Water proofed and power surges that can come through sensor wires.
- Extension Cable Extends cable length for total cable runs of80-140feet (24-42m) sensor to console. Order the4-Conductor Extension Cable [in lengths of40feet (12m) or100feet (30 m)] for use with the anemometer, external temperature sensor, Rain Collector. Order the 6-Conductor Extension Cable [in lengths of 40 feet (12 m) only] for use with the External Temperature/Humidity Sensor.
- Junction Box Cables Order a Standard 8-Conductor Cable for greater flexibility in the Placement of your console. Comes in lengths of25,50, and100feet (7.6,15.2, and 30.4m).

Using Cloud data Facility

Every Analyzer having its unique "USER ID" & "PASSWORD" you can simply login to onlineqengg.com feed product credential and enjoys cloud facility.

Sometime user need to integrate other make RTU for online. When its need so user can communicate with the help of RS485 (datasheet will be provided with our helpline no's or websites) for assistant feel free to team Lafuma PL



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