



Met Station MS-135™

WiFi Weather Station

DATA SHEET

FEATURE SUMMARY

- Preconfigured weather station
- Integrated WiFi transceiver
- Air temperature
- Relative humidity
- Dew point
- Heat index
- Barometric pressure
- Wind speed and direction
- Wind gust
- USB and LCD configuration
- Data logging
- Weather Underground® upload, real-time
- [DyaconLive™](#) Web Portal

DESCRIPTION

Dyacon Meteorological Station MS-135™ is a preconfigured weather station; no programming or professional services are required.

MS-135™ is a private weather station suitable for fixed or temporary installations. It includes a full range of instruments for automatic weather observations.

MS-135™ is equipped with an embedded WiFi transceiver for connecting to the users wireless network. Data is uploaded directly to the [DyaconLive™](#) server, a real-time weather data charting and management interface.

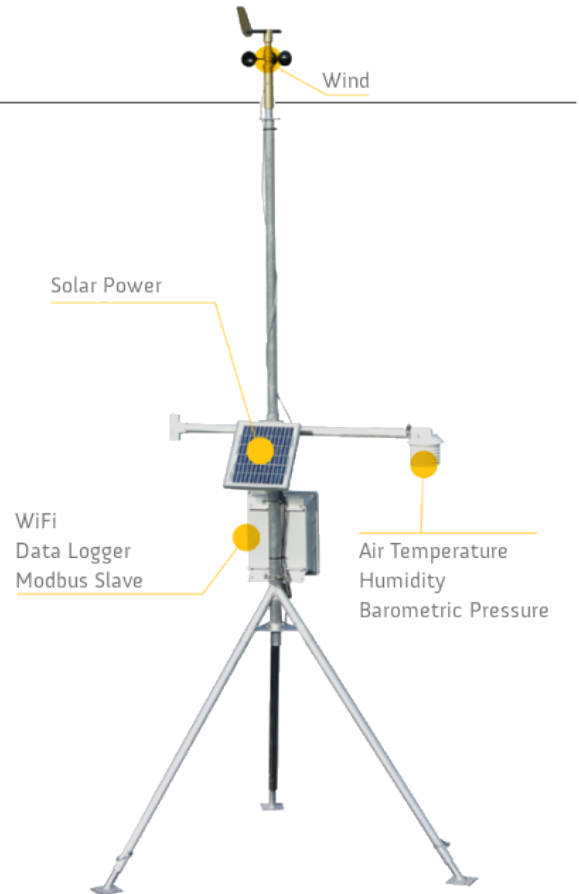
MS-135™ may also be connected to programmable logic controllers (PLCs) or PCs (adapter and software required) using the Modbus RS-485 slave port.

In addition to [DyaconLive](#), **MS-135™** also uploads weather data to your [Weather Underground®](#)

Dyacon weather stations are suitable for:

- Small airports and landing strips
- Temporary event support
- Remote industrial site monitoring
- Public services
- Education

Weather Underground is a registered trademark of TWC Product and Technology LLC.



(Shown with optional tripod)

KEY FEATURES

Controller: A weather station control module integrates the data logger, sensor inputs, LCD display, USB port, Modbus slave ports, solar charge controller, and WiFi on a single circuit board. The integrated circuit board increases reliability, improves installation simplicity, and reduces cost.

Construction: MS-135™ uses Dyacon modular sensors to build a solution that is unique, expandable, and flexible.

Connectors: Wire connections use pluggable terminal blocks for easy and secure wiring.

Wireless Data: An embedded 2.4 GHz WiFi directly connects to [DyaconLive](#), no external modules or host computer needed.

Web Portal: [DyaconLive™](#) web portal and [Weather Underground](#) compatibility provide easy and intuitive access to weather data wherever you may be.

Wired Data: The control module is equipped with a Modbus slave port for connecting to data hosting equipment, such as programmable logic controllers (PLCs), SCADA, and computers.

Installation: MS-135™ is designed to be installed and maintained by the user. Sensors shipped with the unit are preconfigured and tested prior to shipment. Full instructions are provided so that setup can be done without technical support.

MEASUREMENT CAPABILITY *

Modbus Host Port 1	WSD-1 - Wind Direction, Wind Speed
Modbus Host Port 2	TPH-1 - Air Temperature, Relative Humidity, Barometric Pressure
Analog Port 1	Available for analog sensor.
Analog Port 2	Available for analog sensor.
Counter Input	Available for rain gauge.

OTHER FEATURES

Data Logging	Non-volatile Data Logging
Output	Available for Smart-Fan™ aspirator, KIT-ASP.
GPS (Optional)	Integrated GPS-GLONASS receiver

CABLED DATA CONNECTIONS

Modbus Slave (RS-485)	Sensor data for automation controllers and network connectivity.
USB Device	Configuration utility. Log data retrieval. Weather Station Display Software

* Refer to specific sensor and control module data sheets for detailed specifications for each component.

† 2.4 GHz wireless access point required.



Control Module

WIRELESS DATA ACCESSIBILITY †

WiFi Transceiver	802.11 b/g/n (802.11n up to 150 Mbps) 2.4 ~ 2.5 GHz -40°C to 80°C
Web Portal	Automatic direct upload or real-time data to WeatherUnderground.com or DyaconLive™ (dyacon.net)
Email	Email of data log file as CSV attachment sent directly from the weather station hourly, daily, weekly, or monthly.

ELECTRICAL

Power Input	Solar powered. 8 VDC to 26 VDC, 12 VDC nominal
Current	<35 mA avg
Battery	12 VDC, 7 Ah, 1 week autonomous operation

ACCESSORIES AND SENSORS

Tripod	Tripod-1
Aspirator Kit	KIT-ASP
Thermistor Probe (Soil)	TSSP-1
Soil Moisture Probe	SMEC-5
Pyranometer	PSP-110
Rain Gauge	RGTB-4 (Siphon) RGTB-6
Lightning Detector	LD-1
Globe Temperature	GT-1
Software	Dyacon CM Utility (Free) WeeWX

Met Station Feature Comparison

	MS-120	MS-130	MS-135	MS-140	MS-150
Wind Speed	•	•	•	•	•
Wind Direction	•	•	•	•	•
Air Temp.	•	•	•	•	•
Barometric Pressure	•	•	•	•	•
Relative Humidity	•	•	•	•	•
Data Logging	•	•	•	•	•
Solar Sensor					•
Soil/Submersible Temp.				•	•
Rain Gauge					•
Soil Moisture				•	
Integrated Cell Phone		•		•	•
WiFi Transceiver			•		
Weather Underground Upload		•	•	•	•
DyaconLive™		•	•	•	•
Over-the-Air Updates		•	•	•	•
Solar Panel		•	•	•	•
Solar Charge Controller	•	•	•	•	•
Modbus Slave	•	•	•	•	•
USB Device Port	•	•	•	•	•