

animeo Connect

Weather Station M25

Ref. 1860319



OVERVIEW

The Weather Station M25 has a total of 25 sensors. By collecting the external conditions in 8 different orientations, it contributes to the occupants' comfort, reduced energy consumption and the security of the installation. For façade and roof mounting.

INSTALLATION FEATURES

- > 4 pins (RS485 cable connection and power supply).
- > Must be used with the IP Sensor Gateway (ref. 1860312).
- > The place where the sensor is installed might have an impact on the measured values.

FUNCTIONAL FEATURES

The Weather Station M25 includes sensors to suit many different requirements:

- > 8 Lux sensors for glare control and natural light management,
- > 9 Watt/m² sensor for radiation measurement and energy optimisation,
- > Outside temperature sensor for energy optimisation,
- > Sensor for wind speed, wind direction and rain to protect external shades or blinds,
- > Twilight sensor to manage the position of the blinds according to sunrise and sunset times,
- > Dedicated sensor to measure the humidity level.

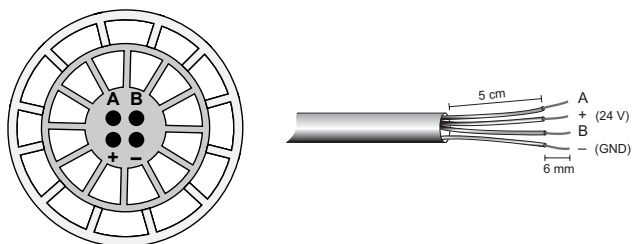
WHAT'S IN THE BOX

- > animeo Connect Weather Station M25
- > Installation Guide
- > Tension relief fixation

OPTIONAL ACCESSORIES

- > Mast Adaptor for Weather Station (ref. 1860321)
- > Metallic Mast for Weather Station (ref. 1860322)
(3 x Metallic Mast of 1 m each (ref. 1860335) and 1 x Wall Mount Bracket (ref. 1860336))
- > Bracket for Weather Station (ref. 1860320).

CONNECTIONS



		ELEMENT	FUNCTION
A	Pair 1	Twisted pair, rigid cable Min.: 2 x 0.28 mm ² /22 AWG Max.: 2 x 0.5 mm ² /20 AWG	Data +
B			Data -
+	Pair 2	Twisted pair, rigid cable Min.: 2 x 0.28 mm ² /22 AWG Max.: 2 x 0.5 mm ² /20 AWG	Supply voltage 24 V DC + 10 %/- 30 %
-			Ground
			Power and data cable

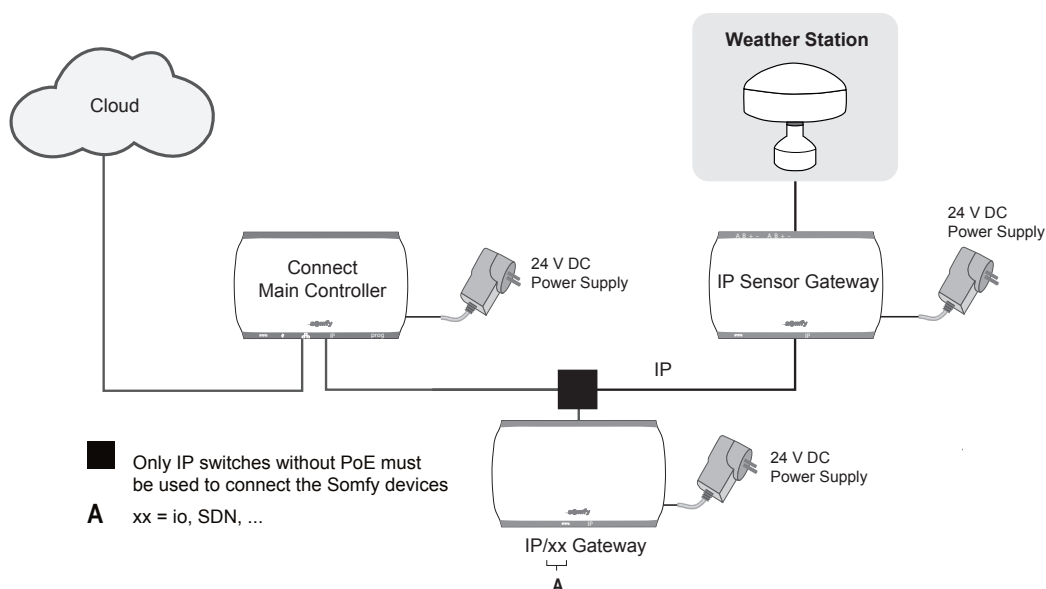
CHARACTERISTICS

Weather Station M25	Ref. 1860319
Supply voltage	24 V DC + 10 % / - 30 %
Max. current	230 mA@24 V
Operating temperature	- 30° C...+ 70° C
Material of housing	Polycarbonate
Housing dimensions (h, Ø)	105 mm, 103 mm
Weight	162 g
Protection class	⚡
Degree of protection	IP44 in working position
Conformity	www.somfy.com/ce

Sensors	Measuring Range	Resolution	Accuracy *
Wind speed	0...35 m/s	0.1 m/s	± 5 % (± 1 m/s) rms over 360°
Wind direction	1...360°	1°	± 5° with laminar flow and windspeed > 2 m/s
Brightness (x 8)	0...100 kLux	0.1 kLux	± 200 Lux with < 2 kLux; ± 10 % with ≥ 2 kLux
Global radiation	0...1,200 W/m²	1 W/m²	± 15 W/m² with < 100 W/m²; ± 15 % with ≥ 100 W/m²
Vertical radiation (x 8) (0°, 45°, 90°, 135°, 180°, 225°, 270°, 315°)	0...1,200 W/m²	1 W/m²	± 15 W/m² with < 100 W/m²; ± 15 % with ≥ 100 W/m²
Twilight	0...1 kLux	1 Lux	± 20 Lux with < 100 Lux; ± 20 % with ≥ 100 Lux
Temperature	- 30...+ 50° C	0.1° C	± 1° C with laminar flow and windspeed > 2 m/s
Humidity sensor	0...100 % rel. humidity	0.1 % rel. humidity	± 10 % rel. humidity at 20° C and wind speed > 2m/s
Precipitation	1/0 (precipitation yes/no)	Thermal output, sensor dry, bedewing protection: 0.1 W Thermal output, sensor wet, drying phase: 1.1 W	

BEST WIRING PRACTICES

This diagram shows the connections from product to product. This device could be used in other configurations than shown below.



CABLE

Connection to ...	Cable	Twisted pair	Max. length
Power Supply	Min.: 2 x 0.28 mm²/22 AWG / Max.: 2 x 0.5 mm²/20 AWG	Required	150 m / 300 m
RS485 Bus	Min.: 2 x 0.28 mm²/22 AWG / Max.: 2 x 0.5 mm²/20 AWG	Required	150 m / 300 m

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