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/m^2 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.

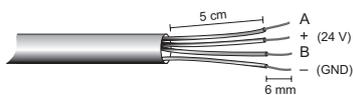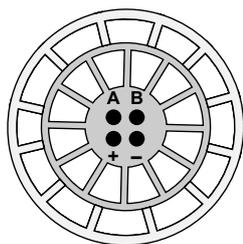## WHAT'S IN THE BOX

> 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 0.3 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 0.3 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

somfy.

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	◇III◇
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.

■ Only IP switches without PoE must be used to connect the Somfy devices

A xx = io, SDN, …
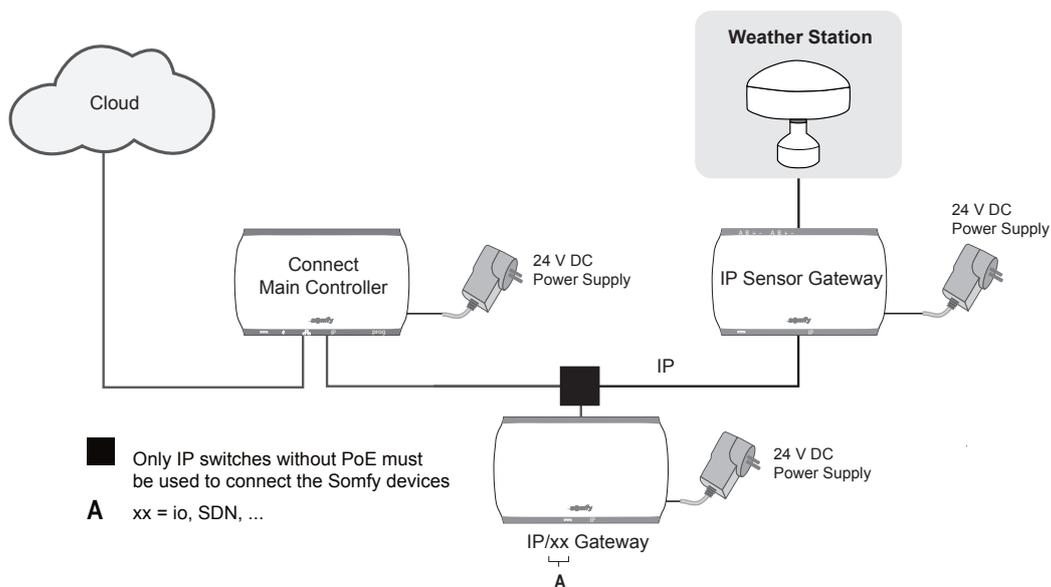
CABLE

Connection to …	Cable	Twisted pair	Max. length
Power Supply	Min.: 2 x 0.3 mm²/22 AWG / Max.: 2 x 0.5 mm²/20 AWG	Required	150 m / 300 m
RS485 Bus	Min.: 2 x 0.3 mm²/22 AWG / Max.: 2 x 0.5 mm²/20 AWG	Required	150 m / 300 m

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