



Compact MiniMet SKCM 100

Introducing the Compact MiniMet weather station from Skye Instruments. This system provides easy installation to walls and masts and allows the user to plug and play with compatible dataloggers.

The Compact MiniMet gives an output of 0-5 volts making this suitable for a wide range of applications, including building management and climate studies.

The station includes all 7 parameters for complete environmental monitoring this includes; wind speed, wind direction, solar radiation, air pressure, precipitation, air temperature and humidity. Skye's Compact MiniMet is one of the only compact weather stations on the market to include all necessary sensors to accurately gauge weather conditions at a competitive price.

The Compact MiniMet is designed with maximum convenience in mind, there is no need to remove sensors that require recalibration, simply disconnect the single cable connector and send the entire system back to Skye where everything is serviced and calibrated if applicable.

Skye have been specialising in meteorological instrumentation since 1983. All are designed, manufactured and calibrated to the highest standards. This robust system utilises sensors that are durable and have been proven to withstand life in the field through many years experience.



Robust with durable sensors proven to withstand life in the field

Low maintenance

Easy installation to walls and masts

Lifelong technical support

Extensive range of scientific references

SKCM 100 SPECIFICATIONS

Wind Speed (*Gill WindSonic*)

Principle - Ultrasonic
Measuring Range - 0-60 m s⁻¹
Accuracy - $\pm 2\%$ @ 12 m s⁻¹
Output - 0-5V
resolution - 0.01 m s⁻¹ (0.02 knots)

Wind Direction (*Gill WindSonic*)

Principle - Ultrasonic
Measuring Range - 0-359°
Accuracy - $\pm 2^\circ$ @ 12 m s⁻¹
Output - 0-5V
resolution - 1°

Solar Radiation

Principle - Silicon cell photodiode
Measuring Range - 0-1500 W m⁻²
Accuracy - Typ. $< \pm 3\%$
Output - 0-5V
resolution - Analogue voltage - limited by measuring equipment.

Precipitation (*Hydreon RG11*)

Principle - Optical
Measuring Range - N/A
Units - mm
Accuracy - No stated accuracy
Output - Relay
resolution - 0.2mm (0.01mm and 0.001mm available upon request)

Relative Humidity

Principle - Capacitive
Measuring Range - 0-100% RH
Accuracy - $< \pm 2\%$ RH
Output - 0-4V
resolution - 0.025% RH

Air Temperature

Principle - Digital (1)
Measuring Range - -40 to +60°C
Accuracy - Typ. $< \pm 0.2^\circ\text{C}$
Output - 0-4V
resolution - 0.125°C

Air Pressure

Principle - Signal conditioned precision pressure transducer
Measuring Range - 800-1100 mbar
Accuracy - Typically 1mbar
Output - 0-5V
resolution - Analogue voltage - limited by measuring equipment.

System

Logger requirements - 0-5V, pulse, and digital inputs, minimum of 7 channels.
Supply - Minimum 12V
Weight - $\approx 5\text{kg}$

ORDERING INFORMATION

Station

SKCM 100 - Compact MiniMet Weather Station

Accessories

ACC/11F - 3m pole for wall installation, including a set of TK brackets & fixings.

ACC/11E - Roof mast setup

**Other masts are available. Please contact Skye to discuss your requirements.*

NOTES ON SPECIFICATIONS

(1) Option of RTD Pt100 1/3 din option with signal conditioned output compatible with 0-5V to 0-10V systems.

Cable from Sensor Distribution Box is Lutze SU TR © PUR (10x0.25)

Compact MiniMet can be interfaced on 0-10V Systems