



- Calibration of instruments for radiation measurements
- Measurement of radiation from UV to IR
- Software for special requirements

The Austrian
Calibration Measurement Software Company

Instruction Manual
Ventilation Unit



J1006-Ventilation Unit

Precision is
our **business**

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CMS Ing. Dr. Schreder GmbH Ventilation Unit

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1 User Information

Thank you for using the CMS product. Make sure to read this instruction manual thoroughly and to understand the contents before starting to operate the instrument. Keep this manual at safe and handy place for whenever it is needed.

For any questions, please contact us at the CMS office given below.

CMS reserve the right to make changes to specifications without prior notice.

1.1 Warranty

For warranty terms and conditions, contact CMS or your distributor for further details.

CMS guarantees that the product delivered to customer has been verified, checked and tested to ensure that the product meets the appropriate specifications. The product warranty is valid only if the product has been installed and used according to the directives provided in this instruction manual.

CMS shall in no event be liable for incidental or consequential damages arising from the faulty and incorrect use of the product.

In case of any manufacturing defect, the product will be repaired or replaced under warranty. However, the warranty does not apply if:

- Any modification or repair was done by any person or organization other than CMS service personnel.
- The damage or defect is caused by not respecting the instructions of use as given on the product brochure or the instruction manual.

1.2 Contact Information

CMS Ing. Dr. Schreder GmbH

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2 Safety Information

This product is designed and manufactured under the consideration of the safety precautions. Please make sure to read and understand this instruction manual thoroughly in order to be able to operate the instrument safely and in the correct manner.

2.1 Warning /Caution

Setup

- Make sure the instrument and the cables are installed in a location where they will not get soaked.

2.2 Voltage Warning

Power Supply

- Make sure to check the power supply voltage and type (AC/DC) before connecting the unit to the power supply. Connecting the unit to other power supplies than specified will lead to damage and accidents.

3 General Description

This manual has been written to show you how to install and maintain the Ventilation Unit.







The Ventilation Unit is designed to be used outdoors under all weather conditions in combination with the Total Sky Camera. It prevents the deposit of dust and dew on the optical system and protects the housing against thermal heating effects (direct radiation from the sun).

The Ventilation Unit has an internal heater which may be switched on or off. The Ventilation Unit is meant to run continuously.

4 Operation

The Ventilation Unit is a turn key solution, and is fitted with a switch mode power supply allowing use with mains supplies as described in the specifications section.

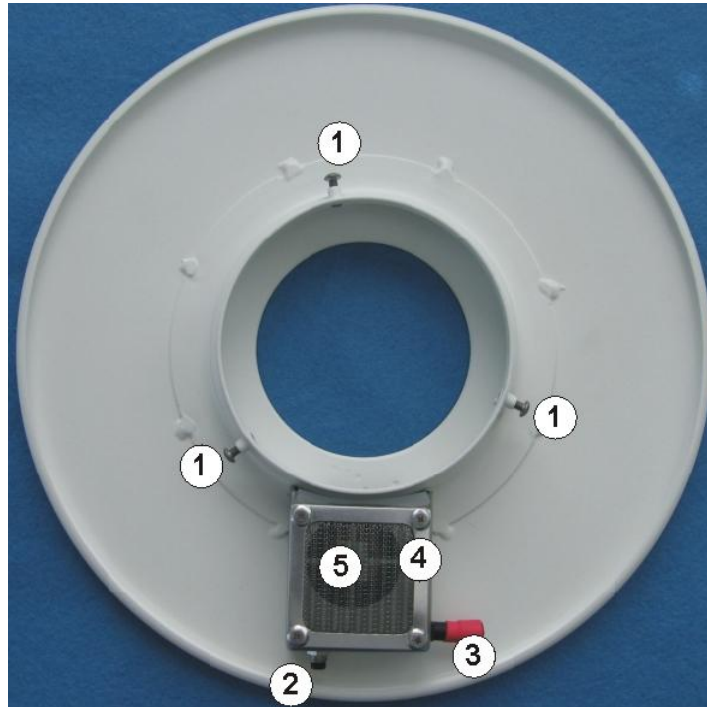
4.1 Package Contents

Contents	Cloudcam	Part. No.
Ventilation unit		100661
Power supply including cable, 20 m* 12VDAC for indoor use.		100641
Cable Connector - Heater on (red)		105221
Cable Connector - Heater off (black)		105220
Filter		105222
Fixing kit with screws and Allan key		105225
Power supply including cable, 30 m	-	100660
Power supply including cable, 50 m	-	100664

* Standard length is 20 m

4.2 Bottom side

- (1) Screws to fix ventilation Unit to Total Sky Camera
- (2) Power supply connector
- (3) Cable Connector: Heater on (red) / Heater off (black)
- (4) Filter
- (5) Heater



If the Ventilation unit is mounted with the supplied screws, only the supplied allen key is required.

The 12 VDC power supply has to be connected to the power supply connector (2).

Because the heater will prevent deposition of dew in the morning, it is advised to use the heater in combination with the ventilator even in warm climates. For heating the cable connector with red colour (3) has to be connected. If heating is not required the cable connector with black colour has to be connected.

5 Appendix

5.1 Maintenance

Regular maintenance can extend the lifetime of the system. However, environmental conditions, such as for instruments mounted near highly frequented traffic lanes or airports, may have a deteriorating effect on the materials. Therefore, proper maintenance is needed and has to be adapted to the local environmental conditions.

The following table describes the common maintenance tasks that should be performed on a regular basis:

Maintenance	Frequency	Effect
Clean/replace filter	6 months	For optimal air flow.
Inspect fan	regularly	For optimal air flow.
Check Setup Base Condition	regularly	Loose instruments and/or mounting plates can lead to damages of the instruments and/or injury.

5.2 Specifications

Electric Power	100-264VAC --- 12 VDC, 2 A
Power consumption van	3.5 W
Power consumption heater	12 W
Rated operating temperature	-30°C to +70°C
Diameter	310 mm
Hight	37 mm
Weight	0.7 kg

5.3 Declaration of EC-conformity

EG-Konformitätserklärung *Declaration of EC-conformity*

Für das folgend beschriebene Gerät
The following described item

J1006 Ventilation Unit

wird hiermit bestätigt, dass es mit den Schutzanforderungen der folgenden Richtlinien übereinstimmt.
herewith is declared to be conform with the safety requirements stated in the EEC-regulation.

Elektromagnetische Verträglichkeit (2004/108/EG)

Diese Erklärung gilt für alle Exemplare und verliert ihre Gültigkeit bei mit uns nicht abgestimmten Änderungen.
This specification applies to all specimens and is voided by not with us coordinated changes made.

Zur Beurteilung des Erzeugnisses hinsichtlich der elektromagnetischen Verträglichkeit wurde folgende Norm herangezogen:
For judging the products conformity the following standards have been applied:

EN 61000-6-1:2007

Die Konformität dieses Produktes ist sichergestellt. Der Hersteller erklärt damit die alleinige Verantwortung für von ihm vertriebene Geräte des oben angegebenen Typs.
The conformity of this product is secured. The manufacturer declares hereby the sole responsibility for appliances mentioned above and produced by the manufacturer himself.

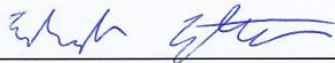
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Stellung im Unternehmen: <i>Position in Company</i>	Application Engineer

Kirchbichl

17.04.2015

Ort
place

Datum
date


rechtsverbindliche Unterschrift
legal signature