

Passive Cloud Cover Detector

Model: PCCD



Cloud cover (also known as cloudiness, cloudage, or cloud amount) refers to the fraction of the sky obscured by clouds when observed from a particular location. This CCF sensor is for measurement of the Cloud Cover Factor. This innovation of Dr. Sten Lofveng makes it possible to get automatic observations of the Cloud Cover Factor, CCF 24 hours a day i.e. the fraction of the sky that is covered with clouds. It consists of a day time unit that observes the sky in 4 directions in parts of the solar spectrum, a night time unit that observes the sky in the thermal infra-red spectrum. A microcomputer evaluates the signals and controls the output.

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Short data for the Unit

Unit of Measurement:	CCF / Okta
Measurement Range:	0 to 100% CCF
Typical accuracy in CCF output:	± 20%
Approx. size:	22*13*15 cm
Power supply:	12 Volt DC
Current consumption:	about 30 mA for electronics and about 50 mA for heating
Temperature range:	-20 to +70 deg C
Output:	Analog 0 to 1V, for CCF 0 to 100%. Alt: digital RS232 polled or streaming
Mounting:	In the lower part of the box there are four channels, for M6 screws, (on a rectangle 82 * 204 mm) that can be used for the mounting. Installation Plate / Clamp will be sold at Extra Cost

Applications

- Solar Power Plants
- Marine vessels
- Small airports & helipads
- Remote weather monitoring stations
- Environmental field sites
- Ports & harbours
- Mobile weather monitoring vehicles
- Coastal weather monitoring stations



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DUQE Square Business Centre, Quarter
Deck, Queen Elizabeth 2, Mina Rashid,
Dubai (United Arab Emirates)

Tel. +971-525829733

E-mail: sales@instrumex.ae

Represented by

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