) COMMETER THERMOMETERS, HYGROMETERS, BAROMETERS for direct measurement and logging



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dual line LCD display with special symbols
 adjustable dual alarm with audio
 indication for each channel
 memory of minimum and maximum values
 function Hold - manual storing of actual
 values for later displaying

Instruments are designed for direct measurement and datalogging to internal nonvolatile memory in adjustable time interval. Recorded data is possible to transfer by means of free program via serial Rs232 link to a PC for archiving or analyzing. Instrument is connected to a PC by included communication cable only for data transfer from the memory. During connection to the PC nor measurement and record is enabled. Instruments are designed for non-aggressive air measurement.

Thermo-hygrometer C3120,D3120 _Thermo-hygro-barometer C4130,D4130

TECHNICAL PARAMETERS - all instruments:		
Operating temperature range:	-10 to +60°C	
Temperature sensor:	RTD	
Accuracy of temperature measurement:	±0.4°C at range -50 to +100°C,	
	±0.5% from reading from +100 to +250°C	
Accuracy of air humidity measurement:	$\pm 2.5\%$ RH at 23 °C at range 5 to 95%, resolution 0.1%	
Accuracy of dew-point reading:	±0.5°C at range 30 to 95%RH	
Accuracy of air-pressure measurement:	±2hPa at 23°C, resolution 0.1hPa	
Power:	battery 9V	
Battery life:	4 months typically (barometers 2 months typically)	
Dimensions:	141 x 71 x 27mm	

TECHNICAL PARAMETERS - loggers (type names beginning from D) :				
Modes of logging:	1. manual logging - capacity of 1000 stored value sets			
	2. automatic noncyclic logging (logging stops after filling the memory)			
	- total capacity of 16000 values			
1	3. automatic cyclic logging (logging continues after filling the memory			
	- oldest values are being replaced by newest) - total capacity approx. 15200 values			
Real time clock:	year, leap year, month, day, hour, minute, second			
PC interface:	serial RS232			
Sampling interval	18 adjustable values from 10s to 24hours (10s, 1min, 2min, 3min,			
in logging mode:	4min,5min,10min,15min,20min,30min,1h,2h,3h,4h,6h,8h,12h,24h)			

INSTRUMENTS ARE AVAILABLE IN THE FOLLOWING TYPES:

Туре	Description	Measuring range
C312O	THERMOMETER-HYGROMETER with switchable dew-point temperature	temperature -10 to +60°C
	reading, built-in sensors	relative humidity 5 to 95%RH
D3120	same as C312O, in addition 3 logging modes with PC interface	
C3121	THERMOMETER-HYGROMETER with switchable dew-point temperature	temperature -30 to +105°C*
1.1	reading and external temperature-humidity probe with 1 meter cable.	Relative humidity O to 100%RH
	Cable lengths 2 meters and 4 meters available optionally. Probe diameter	
	of 18mm, length of 135mm.	
D3121	same as C3121, in addition 3 logging modes with PC interface	
C3631	THERMOMETER-HYGROMETER with switchable dew-point temperature	air temperature -10 to +60°C
10	reading, built-in sensors. A Cinch connector for connection of an external	probe temperature -50 to +250°C
1	RTD Ni1000/6180ppm temperature probe. Surface, pointed-tip, insertion	
	and other probes with Cinch connector are available. Indication	
	of temperature difference of external probe and dew-point temperature.	relative humidity 5 to 95%RH
D3631	same as C3631, in addition 3 logging modes with PC interface	

COMMETER THERMOMETERS, HYGROMETERS, BAROMETERS for direct measurement and logging

	Туре	Description	Measuring range
M	C3633	THERMOMETER-HYGROMETER simultaneous reading of temperature and relative humidity, dew-point temperature reading selectable, built-in sensors. Surface temperature probe on the instrument back side with attaching magnets. Indication of temperature difference of surface probe and dew-point temperature. Adjustable audio and optical alarm for indication of the temperature difference for application of surface coatings	air temperature -10 to +60°C surface temperature -10 to +60°C relative humidity 5 to 95%RH
ALC: NO	D3633 C4130	same as C3633, in addition 3 logging modes with PC interface THERMO-HYGRO-BAROMETER with switchable dew-point temperature reading, built-in sensors, air pressure trend reading for last 3 hours	temperature -10 to 60°C relative humidity 5 to 95%RH air pressure 800-1100hPa
1	D4130	same as C413O, in addition 3 logging modes with PC interface	
	C4141	THERMO-HYGRO-BAROMETER with external temperature-humidity probe on a 1 meter cable. Built-in indoor temperature and air pressure sensors. Switchable dew-point temperature reading, air pressure trend reading for last 3 hours. Cable lengths 2 meters and 4 meters available optionally. Probe diameter of 18mm, length of 135mm.	outdoor temperature -30 to 105°C* indoor temperature -10 to 60°C relative humidity 0 to 100%RH air pressure 800-1100hPa
	D4141	same as C4141, in addition 3 logging modes with PC interface	

* Temperature from +85 to +105°C with the limitation specified in the graph

INCLUDED ACCESSORY:

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Traceable calibration certificate from the manufacturer, instruction manual. Calibration certificate with declared metrological traceability of etalons is based on requirements of EN ISO/IEC 17025 standard.

All instruments are equipped with connector for external ac/dc adapter.

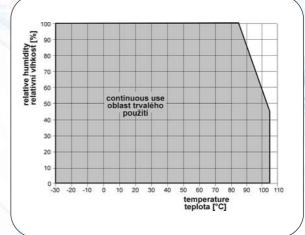
Loggers (types Dxxxx) come complete with a plastic transport case, 9V battery, communication cable for PC. Free Windows program is ready to download at www.cometsystem.cz

Program enables to control all logger functions and viewing and printing of data in numerical and simple graphic formats. It is possible to export data to dbf or txt formats.

Instruments with no PC interface (types Cxxxx) are delivered in a plastic case. 9V battery is included.

OPTIONAL ACCESSORY:

- MPOO6 RS232/USB converter for communication with the PC via USB port
- **F5200B** sensor protection with filter from stainless steel mesh for instruments C/D3121, C/D4141. Filtering capability 0.025mm.
- F1000 sensor protection from sintered bronze for instruments C/D3121, C/D4141. Filtering capability 0.025mm.
- for easy mounting of C/D3121, C/D4141 instruments probes it is possible to order circular plastic flange PP4 with gland or right-angled stain-less steel flange PP90 with gland for wall mounting.
- A1515 adapter 230V-50Hz/12Vdc. 9V battery should be replaced with NiCd accumulator 9V.
 A3400 NiCd accumulator 9V
- SW100 CD with free PC program for Dxxxx loggers
- SWROO4 Optional software for Windows color printing, vertical and horizontal zooming of graphs and other functions (only for Dxxxx loggers)





Thermo-hygrometer C/D3121, Thermo-hygro-barometer C/D4141



F5200B sensor cover with filter from stainless steel mesh and F1000 sintered bronze filter for instruments C/D3121,C/D4141