

COMMETER THERMOMETERS, HYGROMETERS, BAROMETERS for direct measurement and logging



- 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, | | |
| 75/200 | ±0.5% from reading from +100 to +250°C | | |
| Accuracy of air humidity measurement: | ±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 | | |
| -7 | 2. automatic noncyclic logging (logging stops after filling the memory) | | |
| 7 | - total capacity of 16000 values | | |
| 1 | 3. automatic cyclic logging (logging continues after filling the memory | | |
| 1.5° | - 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 |
|-------|--|---------------------------------|
| C3120 | 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 C3120, in addition 3 logging modes with PC interface | |
| C3121 | THERMOMETER-HYGROMETER with switchable dew-point temperature | temperature -30 to +105°C* |
| | reading and external temperature-humidity probe with 1meter 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 |
| 4 | reading, built-in sensors. A Cinch connector for connection of an external | probe temperature -50 to +250°C |
| | 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 | |

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| Type | Description | Measuring range |
|--------------|--|--|
| C363 | 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 |
| D363 C413 | | temperature -10 to 60°C relative humidity 5 to 95%RH air pressure 800-1100hPa |
| D413 C414 | 1 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 |

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

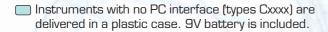
INCLUDED ACCESSORY:

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.

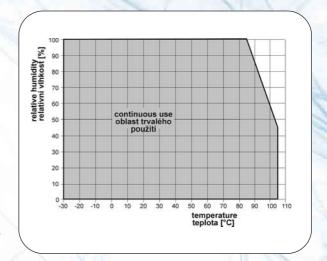


Program enables to control all logger functions and viewing and printing of data in numerical and simple graphic formats. It is possible to export data to dbf or txt formats.





- MP006 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
- SWR004 Optional software for Windows color printing, vertical and horizontal zooming of graphs and other functions (only for Dxxxx loggers)





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

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



