

# COMMETER

High quality, accurate  
and stable sensors



## Measuring and Recording

- Temperature
- Humidity
- Dew point
- Barometric pressure



## Commeter without record - Series "C"

### MEASUREMENT TEMPERATURE HUMIDITY DEW POINT BAROMETRIC PRESSURE

COMMETER portable devices measure physical quantities such as temperature, dew point, humidity, atmospheric pressure or pressure tendency over the past three hours. The measured value is displayed on dual line LCD display. MIN / MAX value or a manually stored measured value can be read on the display.

### ALARM INDICATION

For each measurement channel can be set upper and lower limits. In case the limits are exceeded these limits alarm is indicated as the value blinking on the display. If the alarm is activated, the device can draw attention to this fact also by intermittent acoustic signal which can be turned off.



USB cable for communication is included with Commeter series D.



Commeter series D comes in a case for safe storage and transportation. There is also a place for accessories.

## Commeter with record - Series "D"

### RECORD

Measured values can be stored in memory. Measured values are stored either automatically or manually. Automatic record stores the values at pre-intervals from 10s to 24h. Logging mode can be adjusted as non-cyclic, when logging stops after filling the memory or cyclic, when the oldest recorded values are overwritten by new ones after the memory is full. You can store up to 16 000 values. Manual mode allows you to save the current values by pressing HOLD / ENTER. Stored values can be transferred via the USB port to PC.

### DATA ANALYSIS

The recorded data can be transferred to a PC for further analysis. Obtained Values can be displayed in the form of a table or graph, data can be printed or exported to dbf or txt format for further processing of spreadsheet software.



Software for configuration and analysis.



Temperature and humidity probe.

Temperature and humidity probe.

Inputs for up to two temperature probe Ni1000. Commeter with record - D0211 and D0221 can also measure together with Pt1000 probes.

USB port for easy connection to a PC (D series only).

Measured values are displayed on a backlit display.

The device can be set from the keypad.

The measured values are stored in the internal nonvolatile memory for 16 000 records.

Battery is included.

Built-in acoustic alarm.

Commeters are supplied with traceable calibration certificate in accordance with EN ISO/IEC 17025.

# Commeter without record - Series "C"

**MEASUREMENT**  
**TEMPERATURE**  
**HUMIDITY**  
**DEW POINT**  
**BAROMETRIC PRESSURE**

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# Měřicí a záznamový systém MS v různých provedeních

## ACCESSORIES FOR CALIBRATION AND ADJUSTMENT

The verification of the accuracy of measurement (calibration) and possibly the new settings (adjustment) of the instruments measuring the relative humidity with external probe can be done by using special accessories which can replace prescribed high cost special device for generating a relative humidity (calibration chamber).



**HM023** - set of 5 humidity standards 10% RH with 5 application pads.

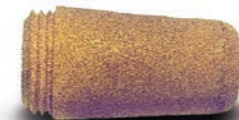
**HM024** - set of 5 humidity standards 80% RH with 5 application pads.

**MD046** - air-tight vessel for adjustment and calibration of humidity.

## SENSOR COVERS FOR IMPROVED PROTECTION FOR EXTERNAL PROBES



**F5300** - teflon sensor cover with increased resistance against splashing water. Cover is not suitable for applications with risk of condensation. Filtering ability 0.025mm.



**F0000** - sintered bronze sensor cover for moderate aggressive environments. Filtering ability 0.025mm.



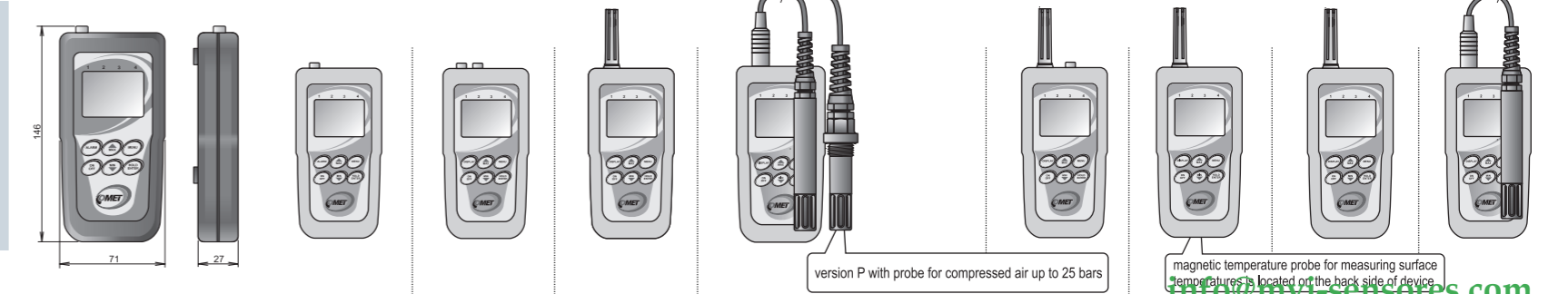
**F5200B** - sensor cover with filter from stainless steel mesh, suitable for moderately dusty environment. Filtering ability 0.025 mm.

### Available models

model	MEASURED VALUES		temperature		temperature + relative humidity				temperature + relative humidity + atm. pressure			
	without record	with record	C0111	C0121	C3120	C3121	C3121P	C3631	C3633	C4130	C4141	
temperature	range		-50 to +250°C		-10 to +60°C	-30 to 105°C		-50 to 250°C	-10 to +60°C		-30 to 105°C	
	accuracy of RTD Ni1000		±0,4°C in range -50 to +100°C, ±0,5% for T > 100°C									
relative humidity	range		-	5 to 95 % RV	0 to 100 % RV		5 to 95 % RV		0 to 100 % RV			
	accuracy		±2,5 %RV in range 5-95% for 23°C									
dew point	range		-40 to +60°C									
	accuracy		±1,5°C for temperature T < 25°C a RV > 30%									
barometric pressure	range		-								800 to 1100hPa	
	accuracy		-								±2 hPa for 23°C	
power	battery		9 V									
	power adapter		12 Vdc									
typical battery life in month			6		4				2			
protection class			IP20									

\* It works well with probes Pt 1000 in the range of -200 to 500 °C

accuracy of RTD Pt1000 sensor:  
 ±0,3°C in range -50 to +100°C  
 ±0,3% for T > 100°C  
 ±0,6% for T < -50°C



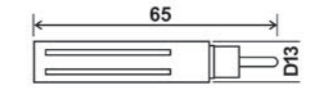
version P with probe for compressed air up to 25 bars

magnetic temperature probe for measuring surface temperature located on the back side of device

# External temperature probes

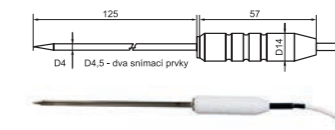
Temperature probes on the cable are designed to measure the temperature in specific applications. Probes are supplied in lengths of 1, 2, 5 and 10 meters. To maintain high accuracy measurements it is not recommended to use probes with lengths greater than 20 meters. Probes are manufactured in accuracy of class A, unless stated otherwise.

Fast accurate air probe with fast response time without protection against moisture.



100-60, Ni1000 (-30°C to +80°C)

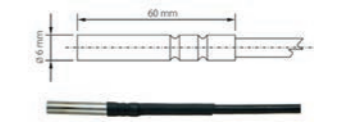
Hand-held pointed tip probe for food industry with teflon handle and silicon cable.



0061-200/C, Ni1000 (-30°C to +200°C)

The complete range of probes can be found at [www.cometsystem.com](http://www.cometsystem.com)

Universal temperature watertight probe with IP68 for long-term monitoring of temperature in the liquid.



N1ATG68/C, Ni1000 (-80°C to +200°C)

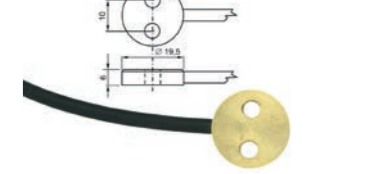
Direct surface probe with RTD Ni1000, cable length 1m.



031-150/C, Ni1000 (-30°C to 150°C)

**POWER SUPPLY**  
**A1515** power adapter 12 Vdc

Brass probe for surface temperature measurements. Probe is not resistant to moisture.



N1ATG7/C, Ni1000 (-30°C to +200°C)

Surface temperature probe.



031-60, Ni1000 (-30°C to 60°C)

**A3400** - NiMH rechargeable accumulator

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The COMET System, s.r.o. company is continuously developing and improving its product. COMET System, s.r.o. reserves the right to carry out technical changes in equipment or product without any previous notice.