

# Premium Dataloggers

Battery operated recorders



- Accurate measurement of
  - Temperature
  - Humidity
  - Dew point
  - CO<sub>2</sub> (up to 10 000 ppm)
  - Atmospheric pressure
  - Current (4 – 20 mA)
  - Voltage (0 – 5 V, 0 – 10 V)
  - Pulses
  - Events
- Nonvolatile memory for 500 000 records
- Visual and acoustic indication of alarm
- Easy to use software Comet Vision 2.0 for data analysis
- USB-C communication interface
- Rugged design
- Long battery life up to 6 years
- Logger deployment down to -40°C

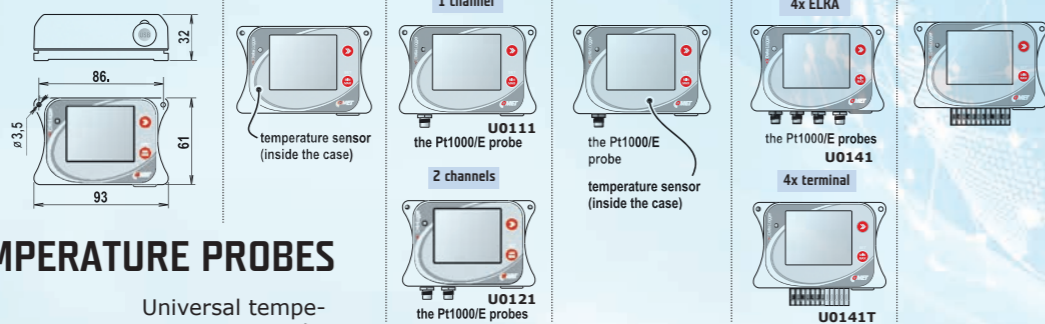
product catalog



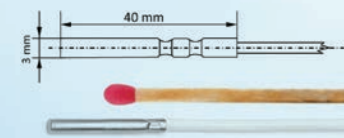
# Thermometers

measured values			temperature				
datalogger model			U0110	U0111 U0121	U0122	U0141 U0141T	U0246
temperature	internal	range	-30 °C to +70 °C	-	-30 °C to +70 °C	-	-30 °C to +70 °C
		accuracy	±0.4 °C	-	±0.4 °C	-	±0.4 °C
	external Pt1000	range	-	-90 to +260 °C	-90 to +260 °C	-90 to +260 °C	-90 to +260 °C
		accuracy *	-	±0.2°C	±0.2°C	±0.2°C	±0.2°C
	external thermo-couple	range	-	-	-	-	-200 to +1700 °C ****
		accuracy	-	-	-	-	-
typical battery life			6 years				
class of protection of case with electronics			IP 67		IP 67 IP 20		IP 20

\* accuracy of device w/o probe in measuring range of -90 to 100 °C (in range +100 to +260 °C is accuracy ±0.2 % of measured value)  
\*\* depending on the type of thermocouple.



## EXTERNAL TEMPERATURE PROBES

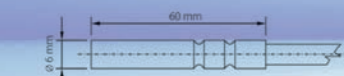


Pt1000TG3/E (-50°C to +200°C)

Cryogenic temperature probe .



Pt1000TR125/E (-190 to +150°C)



Pt1000TG68/E (-80°C to +200°C)

Inexpensive probe with plastic housing, slow response and with IP67.



Pt1000TR160/E (-30°C to +80°C)

Universal temperature watertight probe with IP68 rating for long-term monitoring of temperature in liquids.

Ultra thin temperature probe .

3-colour LED for alarm.

Large display for easier readability of current value, MIN/MAX values, and alarm indication.

Two buttons keypad for device control.

Acoustical alarm signalization.

Connectors for removable and interchangeable probes.

Internal temperature sensor.

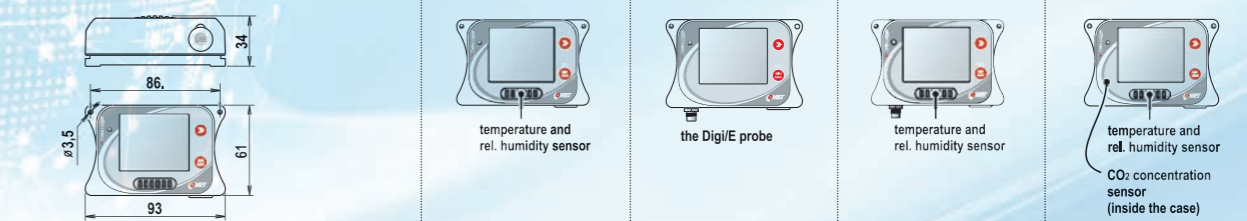
Connector USB-C for simple connection.

Other probes are available on the website [www.cometsystem.com](http://www.cometsystem.com)



# Thermometer hygrometer datalogger

MEASURED VALUES			Temperature, relative humidity			Temperature, relative humidity, bar. pressure
datalogger model			U3120	U3121	U3631	U4130
temperature	internal	range	-30 to +70 °C	-	-30 to +70 °C	-30 to +70 °C
		accuracy	±0.4 °C	-	±0.4 °C	±0.4 °C
	external	range	-	-	-90 to +260 °C	-
		accuracy *	-	-	±0.2°C	-
relative humidity**		range	0 to 100 %RH	according to the probe	0 to 100 %RH	0 to 100 %RH
dew point accuracy ****		accuracy ***	±1.8% RH		±1.8% RH	±1.8% RH
bar. pressure		range	-	-	-	600 to 1100 hPa
		accuracy	±1.5 °C	-	±1.5 °C	±1.3 hPa
typical battery life			6 years			
class of protection of case with electronics			IP 67			



\* accuracy of device w/o probe in measuring range of -90 to 100 °C (in range +100 to +260 °C is accuracy ±0,2 % of measured value)  
\*\* from 0 to 90 %RH at 23 °C  
\*\*\* accuracy of sensing element  
\*\*\*\* at ambient temperature T<25°C and RH>30%

## External temperature/ humidity probes

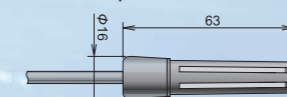
The probe is interchangeable with a calibration certificate. The probe line wire must not exceed 30 m.

Ultra thin digital probe.



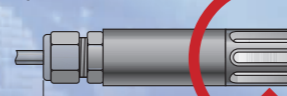
DIGIH/E (-10 to +60 °C; 0 to 100% RH)

Low cost probe without filter mesh.



DIGIS/E (-10 to +60 °C; 0 to 95% RH)

Probe with interchangeable protection filter.



DIGIL/E (-30 to +105 °C; 0 to 100% RH)

## Sensor covers for external probes

**F5300** - teflon (PTFE) sensor cover (white colour), with increased resistance against splashing water, non-absorbent surface, does not rust. Porous size 25µm. Temperature range -40°C to +125°C.

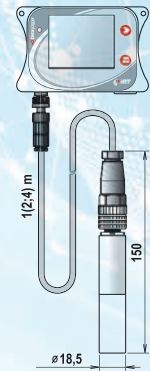
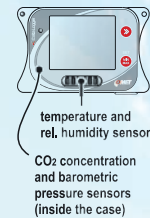
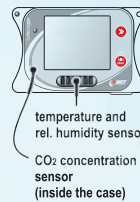
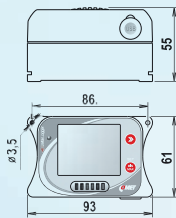
**F0000** - sintered bronze sensor cover for moderate aggressive environments. Filtering ability 0.025mm.

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



# CO<sub>2</sub> dataloggers

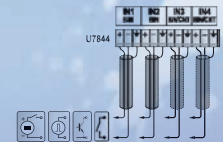
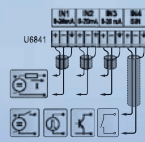
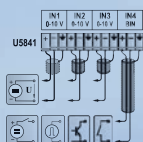
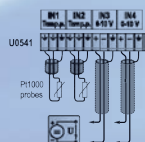
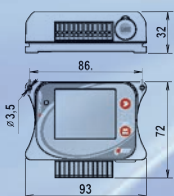
MEASURED VALUES		CO <sub>2</sub>	Temperature, relative humidity, CO <sub>2</sub>	Temperature, relative humidity, CO <sub>2</sub> bar. pressure	CO <sub>2</sub> bar. pressure
datalogger model		U8410	U3430	U4440	U2422
temperature	range	-	-20 °C to +60 °C	-20 °C to +60 °C	-
	accuracy	-	±0.4 °C	±0.4 °C	-
relative humidity*	range	-	0 to 100 %RH	0 to 100 %RH	-
	accuracy **	-	±1.8% RH	±1.8% RH	-
dew point accuracy	accuracy ***	-	±1.5 °C	±1.5 °C	-
CO <sub>2</sub>	range****	0 to 5000 ppm	0 to 5000 ppm	0 to 5000 ppm	according to the probe, length 1,2,4 m
	accuracy	±(50 ppm+2% MV)	±(50 ppm+2% MV)	±(50 ppm+2% MV)	
bar. pressure	range	-	-	600 to 1100 hPa	600 to 1100 hPa
	accuracy at 23 °C	-	-	±1.3 hPa	±1.3 hPa
typical battery life		up to 1 year			



\* from 0 to 90 %RH at 23 °C  
 \*\* accuracy of sensing element  
 \*\*\* at ambient temperature T<25°C and RH>30%  
 \*\*\*\* optional measuring range 10 000 ppm

# Dataloggers for monitoring of current, voltage, events, pulses and temperature

MEASURED VALUES		Temperature, voltage	Voltage, two-state inputs	Current, two-state inputs	Two-state inputs
datalogger model		U0541	U5841	U6841	U7844
temperature	range	-90 to +260 °C	-	-	-
	accuracy *	±0.2 °C	-	-	-
voltage	range	0 to 10 V	0 to 10 V	-	-
	accuracy	±10 mV	±10 mV	-	-
current	range	-	-	0 to 20 mA	-
	accuracy	-	-	±20 uA	-
two-state input	dry contact	-	voltage at open contact 3 V		
	voltage signal	-	input voltage range 0 to 30 V		
counter maximum pulse frequency	dry contact	-	-	-	200 Hz
	voltage signal	-	-	-	5 khz
typical battery life		up to 6 years (regarding to datalogger setting)			
class of protection of case with electronics		IP 20			



\* accuracy of device w/o probe in measuring range of -90 to 100 °C (in range +100 to +260 °C is accuracy ±0,2 % of measured value)