

## IoT Wireless Temperature, Relative Humidity, CO2 and atmospheric pressure Datalogger with built-in 2G modem and Flat Rate SIM Card



code: U4440Msim

IoT Wireless Datalogger kit with built-in GSM modem and Flat Rate SIM Card allows the instant connection to the COMET Cloud.

IoT Datalogger is designed to record temperature, humidity, atmospheric pressure and CO2 from built-in sensors. In case of exceeded set limits email is sent from the <a href="COMET Cloud">COMET Cloud</a>.

Alarms are also indicated locally by LED, LCD and acoustically by built-in beeper.

The recording is performed in a non-volatile electronic memory. The data can be transferred to a PC via included USB-C cable.

GSM recorder **includes Traceable calibration certificate** with declared metrological traceability of etalons is based on requirements of **EN ISO/IEC 17025 standard.** 

## **Technical data**

Measuring range         -20 to +60 °C           Accuracy         ±0.4 °C           Resolution         0.1 °C           HUMIDITY SENSOR         0 to 100 % RH           Measuring range         0 to 100 % RH           Accuracy         ± 1.8 % RH           Resolution         0.1 % RH           DEW POINT         -90 to +60 °C           Measuring range         -90 to +60 °C           Accuracy         ±1.5 °C at ambient temperature T <25 °C and RH >30 %           Resolution         0.1 °C           CO2 SENSOR	TEMPERATURE SENSOR	
Resolution 0.1 °C HUMIDITY SENSOR  Measuring range 0 0 to 100 % RH  Accuracy ± 1.8 % RH  Resolution 0.1% RH  DEW POINT  Measuring range -90 to +60 °C  Accuracy ±1.5 °C at ambient temperature T <25 °C and RH >30 %  Resolution 0.1 °C  CO2 SENSOR  Measuring range 0 to 5000 ppm  Accuracy ±(50ppm +2% from reading) at 25°C and 1013hPa  Resolution 1 ppm  ATMOSPHERIC PRESSURE SENSOR SENSOR  Measuring range 600 to 1100 hPa  Accuracy ±1.3 hPa at 23 °C from 800 to 1100 hPa  Resolution 0.1 hPa  GSM MODEM PARAMETERS  Quad-band 850/900/1800/1900MHz  Compliant to GSM Phase2/2+  GPRS GPRS GPRS mobile station class B  Class 4 2W @ 850/900MHz  Class 1 1W @ 1800/1900MHz	Measuring range	-20 to +60 °C
HUMIDITY SENSOR	Accuracy	±0.4 °C
Measuring range         0 to 100 % RH           Accuracy         ± 1.8 % RH           Resolution         0.1% RH           DEW POINT         -90 to +60 °C           Accuracy         ±1.5 °C at ambient temperature T <25 °C and RH >30 %           Resolution         0.1 °C           CO2 SENSOR         -0 to 5000 ppm           Measuring range         0 to 5000 ppm           Accuracy         ±(50ppm +2% from reading) at 25°C and 1013hPa           Resolution         1 ppm           ATMOSPHERIC PRESSURE SENSOR SENSOR         600 to 1100 hPa           Measuring range         600 to 1100 hPa           Accuracy         ±1.3 hPa at 23 °C from 800 to 1100 hPa           Resolution         0.1 hPa           GSM MODEM PARAMETERS         850/900/1800/1900MHz           Quad-band         850/900/1800/1900MHz           Compliant to GSM         Phase2/2+           GPRS         GPRS mobile station class B           Class 4         2W @ 850/900MHz           Class 1         1W @ 1800/1900MHz	Resolution	0.1 °C
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DEW POINT         -90 to +60 °C           Accuracy         ±1.5 °C at ambient temperature T <25 °C and RH >30 %           Resolution         0.1 °C           CO2 SENSOR         0 to 5000 ppm           Measuring range         0 to 5000 ppm           Accuracy         ±(50ppm +2% from reading) at 25 °C and 1013hPa           Resolution         1 ppm           ATMOSPHERIC PRESSURE SENSOR SENSOR         600 to 1100 hPa           Measuring range         600 to 1100 hPa           Accuracy         ±1.3 hPa at 23 °C from 800 to 1100 hPa           Resolution         0.1 hPa           GSM MODEM PARAMETERS         850/900/1800/1900MHz           Quad-band         850/900/1800/1900MHz           Compliant to GSM         Phase2/2 +           GPRS         GPRS mobile station class B           Class 4         2W @ 850/900MHz           Class 1         1W @ 1800/1900MHz	Accuracy	± 1.8 % RH
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Resolution         %           CO2 SENSOR         0.1 °C           Measuring range         0 to 5000 ppm           Accuracy         ±(50ppm +2% from reading) at 25°C and 1013hPa           Resolution         1 ppm           ATMOSPHERIC PRESSURE SENSOR SENSOR         600 to 1100 hPa           Measuring range         600 to 1100 hPa           Accuracy         ±1.3 hPa at 23 °C from 800 to 1100 hPa           Resolution         0.1 hPa           GSM MODEM PARAMETERS         850/900/1800/1900MHz           Quad-band         850/900/1800/1900MHz           Compliant to GSM         Phase2/2+           GPRS         GPRS mobile station class B           Class 4         2W @ 850/900MHz           Class 1         1W @ 1800/1900MHz	Measuring range	-90 to +60 °C
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ATMOSPHERIC PRESSURE SENSOR SENSOR  Measuring range  Accuracy  Accuracy  Resolution  GSM MODEM PARAMETERS  Quad-band  Compliant to GSM  GPRS  GPRS  GPRS mobile station class B  Class 4  Class 1  Class 1  Control of the control of t	Accuracy	±(50ppm +2% from reading) at 25°C and 1013hPa
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Resolution         0.1 hPa           GSM MODEM PARAMETERS         850/900/1800/1900MHz           Quad-band         850/900/1800/1900MHz           Compliant to GSM         Phase2/2+           GPRS         GPRS mobile station class B           Class 4         2W @ 850/900MHz           Class 1         1W @ 1800/1900MHz	Measuring range	600 to 1100 hPa
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Compliant to GSM  Phase2/2+  GPRS  GPRS mobile station class B  Class 4  Class 1  1W @ 1800/1900MHz	GSM MODEM PARAMETERS	
GPRS         GPRS mobile station class B           Class 4         2W @ 850/900MHz           Class 1         1W @ 1800/1900MHz	Quad-band	850/900/1800/1900MHz
Class 4 2W @ 850/900MHz Class 1 1W @ 1800/1900MHz	Compliant to GSM	Phase2/2+
Class 1 1W @ 1800/1900MHz	GPRS	GPRS mobile station class B
	Class 4	2W @ 850/900MHz
GENERAL TECHNICAL DATA	Class 1	1W @ 1800/1900MHz
	GENERAL TECHNICAL DATA	

Operating temperature	-20 to +60 °C
Channels	internal sensor for temperature, humidity, CO <sub>2</sub> and atmospheric pressure
Memory	500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode
Recording interval to the internal memory	adjustable from 1 second to 24 hours
Recording interval to the COMET Cloud	from 5 minutes
Interval for measuring and evaluating alarms	adjustable 1 s, 10 s, 1 min
Recording mode	noncyclic - data logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new
Real time clock	year, leap year, month, day, hour, minute, second
Power	rechargeable Li-lon battery A8200, 3.6V/5200mAh
Protection class	IP20
Dimensions	61 x 93 x 53 mm, with antenna 120 x 93 x 53 mm
Weight (including batteries)	approx. 260 g
Warranty	3 years