MyJ Sensores

SENSORS WITH Wifi Interface

2.4 GHz WiFi network for wireless measuring and monitoring



• High quality, accurate and stable sensors of

- Temperature
- Humidity
- Dew point
- Bar. pressure
- CO_z
- Alarm signalisation
- Wireless data transmitting via 2.4 GHz





www.myj-sensores.com



On-line Wireless Measurement and Monitoring

Temperature • Humidity • Humidity computed values • Atm. pressure • CO₂

Sensors with WiFi interface are designed to measure temperature, relative humidity, barometric pressure and CO_2 concentration of the air in non-aggressive environment. Communication with the sensor is done via wireless WiFi network. The instrument measures with 1sec interval and the shortest sending interval to COMET Cloud is 5min.

Indoor applications are the most suitable for sensors with Wi-Fi interface. It is extremely easy to mount them on monitored places and run them on.

The measured values are displayed on the LCD display and can be send to the COMET cloud or COMET Database software at a set interval.

Application examples

Monitoring of temperature in stock rooms

Due to standards and directives, or at will, it is necessary to monitor the temperature in storage areas associated with food production, drug storage, restaurants, laboratories, factories, etc. Every such business must have a warehouse.

The sensor W3721 allows to measure

temperature and humidity from two ex-

ternal probes within 15 meters.

The sensor W0741 can measure p to 4 locations at a radius of 20 meters.	0



Very easy installation on metal construction of shelves thanks to holder with two powerful neodymium magnets.

Mapping - creating a temperature and humidity plan of an enclosure

Why map? The answer is homogeneity when you measure from two set locations within the enclosure and environmental effects to check if the operating conditions are having an effect on the performance of a room.

Why lock it down? Because it cannot be taken away.



LP100 - Wall holder with lock to protect against unauthorized removal.



WiFi sensor W4710 measures air we brief.



Alarm Indication

failure

For each measurement channel can be set upper and lower limit. In case the limits are exceeded this alarm is indicated on the display, visually by LED or acoustically. The COMET Cloud or COMET Database soft-

ware can create alarm an

e-mail and send it to user.

SMS alarm text is also

possible with database

software and with proper

°C MARINI



accessories.

Connect the device to WiFi network for settings

Setting through sensor's web browser interface is simple and without the need for special software. In that case the sensor must be connected to the Wi-Fi network to enable web settings and configuration. Enter the IP address of the sensor into your internet browser, load its website, click on "Settings" and make the settings.

WiFi transmitter W3711 +†‡ (i) 🕞 Ð. 18.6°C alarm 1 none alarm 2 none 45.0%RH alarm 1 none alarm 2 none

Sensor setting can be also done via USB cable from COMET Vision software.





Schools and public interior spaces

Protect your children's health with timely controlof air quality in buildings. With COMET CO₂ sensors you always see the exact CO₂ concentration, temperature and humidity which can also inform about humidity index - humidex.

Humidex expresses a feeling of satisfaction with the environment in terms of temperature and humidity. It describes how hot the weather feels to the average person, by combining the effect of heat and humidity. The term humidex is a Canadian innovation coined in 1965. The humidex is a dimensionless quantity based on the dew point.

ALARM OFF ALARM ON AND IN THE REAL PROPERTY OF time

Exceeding of alarm limits on the channel • Device failure • External power





COMET Cloud is the internet storage of data measured by COMET sensors. The data is accessible in the internet and displayed in an internet browser. Every user has the access to his account COMET Cloud protected by password. COMET Cloud enables to add sensors, creates organisational structures such sensor groups and user groups. The different rights can be set up for displaying and administration

• unlimited space for data

management and organization of

- equipments
- measured points
- users and their access rights
- e-mail alarming when
- exceeding alarm limits with the option define recipients according to the level of exceedance
- a fault occurs (connection, measurement error)
- easy report creating
- device setup from COMET Cloud (only once a day)

Tutorials

- How to create account
- How to add device
- How to set role administrator/user
- How to create measured place
- Try GUEST access at https://cometsystem.cloud/device/list

For users of COMET products exists a solution for data collection to one central place. It is software solution based on MS SQL and installed on customer's server

Measured values		Temperature			Temperature, relative humidity				Temperature, relative humidity, atm. pre- ssure	Temperature, rela- tive humidity, CO2, atm. Pressure	۲Oz		
Sensor model			W0710	W0711	W0741	W3710	W3711	W3721	W3745	W7710	W4710	W5714	
ir temperature e	internal	range	-30 to +60°C	30 to +60°C		-30 to +60°C ±0.4°C			-	-30 to +60°C	-30 to +60°C	-	
		accuracy	±0.4°C	-	-		-	-		±0.4°C	±0.4°C		
	ovtornal	range		-90 to +260°C	-90 to +260°C				-90 to +260°C	-	-	-	
	external	accuracy*	-	±0.2°C	±0.2°C	-			±0.2°C				
relative humidity		range				0 to 95 % RH	according the probe	according the probe	according the probe	0 to 95 % RH	0 to 95 % RH	-	
		accuracy **	-	-	-	±1.8 %RH				±1.8 %RH	±1.8 %RH		
dew point accuracy		accuracy ***	-	-	-	±1.5 °C				±1.5 °C	±1.5 °C	-	
CO2		range****	-	-	-	-	-	-	-	-	0 to 5000 ppm	0 to 5000 ppm	
		accuracy									±(50ppm+3% MV)	±(50ppm+3% MV)	
atm. pressure		range	-								600 to 1100 hPa	600 to 1100 hPa	
		accuracy		-	-	-	-	-	-	±1.3 hPa	±1.3 hPa	-	
power supply		connector USB - C	5.0 to 5.4 VDC; consumption 300 mA (max. 500 mA)										
radio section		frequency: 2.4 GHz; max. transmit po wer: 18 dBm; standard: 802.11 b/g/n; contain CC3220MODSF with FCC ID: Z64-CC3220MOD											
IP protection class		IP30											

_____ Digi/E probe





Pt1000/C probe

temperature sensor





** from 0 to 90 %RH at 23 °C

*** at ambient temperature T<25°C and RH>30%

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. Probes are manufactured in accuracy of class A, unless stated otherwise.



External temperature /humidity probes

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





(-30 to +105 °C; 0 to 100% RH)

Sensor covers for external probes

Digi/E probes

2 channels

Digi/E probes + Pt1000/C probes

1 temp./hum.

3 temp.



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

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temperature and rel. humidity sensor bar. pressure sensor is inside the case



bar. pressure sensor and CO₂ sensor are inside the case



CO₂ sensor is inside the case

Power supply

The device is equipped with a connector USB Type-C, which is used to connect the power supply and to communicate with the computer. The sensor can be powered from main power supply, power bank or solar panel.

A1879 - Switching power supply 5 V DC. Standard plug type EU, optional UK or US.





MP053 - USB-C cable, 1 meter

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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.