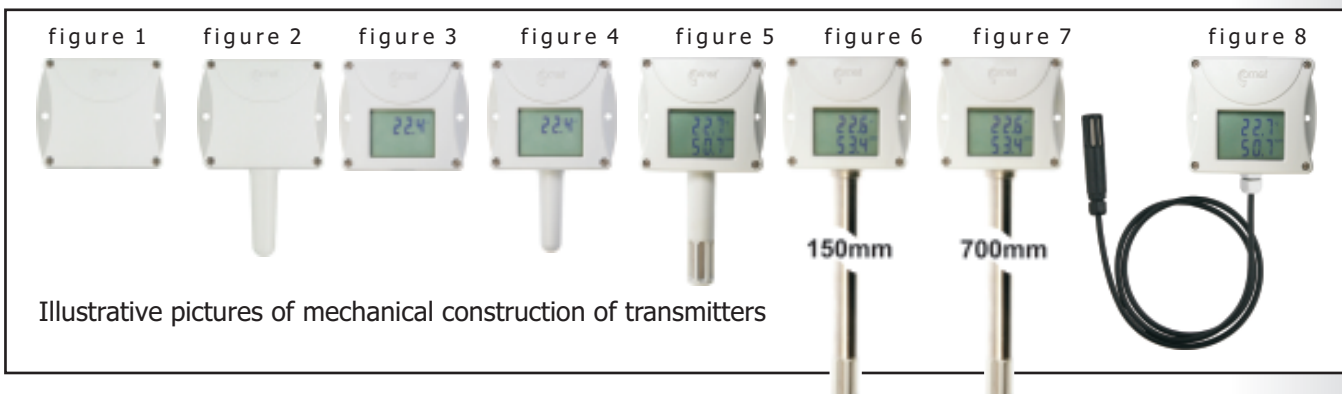


# SELECTION TABLES OF TEMPERATURE, HUMIDITY, PRESSURE CO<sub>2</sub> TRANSMITTERS Txxxx, Pxxxx

## INDUSTRIAL TRANSMITTERS of Txxxx, Pxxxx family:

MEASURED VALUE / OUTPUT	4 to 20mA	0 to 10V	RS485	RS232	Ethernet
temperature	<b>P0120</b> figure 2 page 42	<b>T4211</b> figure 3 page 47	<b>T0410</b> figure 4 page 49	<b>T0310</b> figure 4 page 51	<b>P86xx</b> figure 2 page 53
	<b>Px1x1</b> figure 1 page 42		<b>T4411</b> figure 3 page 49	<b>T4311</b> figure 3 page 51	<b>P85xx</b> figure 2 page 55
	<b>T0110</b> figure 4 page 43				<b>T0510</b> figure 4 page 57
	<b>T4111</b> figure 3 page 43				<b>T4511</b> figure 3 page 59
humidity	<b>T1110</b> figure 5 page 43				
atmospheric pressure	<b>T2114</b> figure 3 page 45	<b>T2214</b> figure 3 page 45	<b>T2414</b> figure 3 page 49	<b>T2314</b> figure 3 page 51	<b>T2514</b> figure 3 page 59
temperature+humidity	<b>T3110</b> figure 5 page 43	<b>T0210</b> figure 5 page 47	<b>T3411</b> figure 5 page 49	<b>T3311</b> figure 5 page 51	<b>T3510</b> figure 5 page 57
	<b>T3113</b> figure 6 page 43	<b>T0213</b> figure 6 page 47	<b>T3413</b> figure 6 page 49	<b>T3313</b> figure 6 page 51	<b>T3511</b> figure 8 page 59
	<b>T3117</b> figure 7 page 43	<b>T0211</b> figure 8 page 47	<b>T3417</b> figure 7 page 49	<b>T3319</b> figure 8 page 51	
	<b>T3111</b> figure 8 page 43		<b>T3419</b> figure 8 page 49		
temperature+humidity +atmospheric pressure			<b>T7410</b> figure 5 page 49	<b>T7310</b> figure 5 page 51	<b>T7510</b> figure 5 page 57
CO <sub>2</sub>	<b>T5140</b> figure 3 page 46	<b>T5240</b> figure 3 page 47	<b>T5440</b> figure 3 page 49	<b>T5340</b> figure 3 page 51	<b>T5540</b> figure 3 page 57
	<b>T5141</b> figure 8 page 46	<b>T5241</b> figure 8 page 47	<b>T5441</b> figure 8 page 49	<b>T5341</b> figure 8 page 51	<b>T5541</b> figure 8 page 59
temperature+humidity+ CO <sub>2</sub>			<b>T6440</b> figure 5 page 49	<b>T6340</b> figure 5 page 51	<b>T6540</b> figure 5 page 57

Pxxxx, Txxxx



## INTERIOR TRANSMITTERS of Txx18 family

MEASURED VALUE / OUTPUT	4 to 20mA page 63	0 to 10V page 63	RS485 page 65	RS232 page 65
temperature	T0118	T0218	T0418	T0318
atmospheric pressure	T2118	T2218		
temperature + humidity	T3118	T3218	T3418	T3318
temperature + humidity + atmospheric pressure			T7418	T7318



## COMPACT TEMPERATURE, HUMIDITY, ATMOSPHERIC PRESSURE CO<sub>2</sub> TRANSMITTERS with Ethernet interface

temperature\*barometric pressure\*relative humidity\*dew point temperature\* absolute humidity\*specific humidity\*mixing ratio\*specific enthalpy\*CO<sub>2</sub>



### APPLICATIONS

- server rooms
- telecommunications
- warehouses
- glasshouses
- manufacturers
- museums, archives, galleries
- air-conditioned rooms



Ethernet sensor is designed for measurement of temperature, atmospheric pressure, relative humidity CO<sub>2</sub> concentration. Large dual line LCD

for simultaneous display of measured or calculated values is an advantage. State-of-the-art capacitive polymer sensor ensures excellent calibration long term stability, inertia against water and condensation. Transmitter is designed for use in non-aggressive environment.

Online data acquisition system from Ethernet transmitters can be easily built by means of Comet software Database Sensor Monitor.

**NEW** The CO<sub>2</sub> - carbon dioxide level is recently regarded as an important parameter that substantially determines the quality of the interior climate. Especially in buildings where many people gather, such meeting rooms, hospitals, schools, cinemas, theatres and care centres. With the help of CO<sub>2</sub> sensor engineers, technical advisors, environmental experts and health specialists can optimize the ventilation for creation of a healthy interior climate.

The CO<sub>2</sub> measurement is based on a 2-source, 2-beam process. CO<sub>2</sub> measurement with long-term stability is guaranteed thanks to the proven non-dispersive infrared (NDIR) CO<sub>2</sub> measurement cell.

The unique patented auto-calibration procedure compensates for aging of the infrared source and guarantees high reliability, long term stability and eliminates the need of periodical recalibration in the field.

### MODES OF COMMUNICATION

ModBus TCP:	Modbus TCP protocol enables to read measured values, set alarm limits, adjust the probe.
Telnet:	Port 9999 enables to set alarm limits (lower and upper limits for T, RH, Tdp, hysteresis and time delay), e-mail addresses, SNMP addresses, probe description, refresh of www pages (10s to 65535s), select type of www pages, set storing interval to history (10s to 65535s), enable each communication channel. Capacity of the history memory is 100 sets of measured temperature, humidity, pressure+computed value. Password protection of this port is enabled. Automatic IP address assignment from DHCP server is also enabled.
www pages:	User selectable design of www pages enabling to display curves of measurement history. User can design the look of www pages and select values to display.
SNMP:	It is possible to read actual values and alarm limits. In case of alarm creation warning message (trap) is sent to IP addresses defined by the user (maximum three addresses).
SOAP:	Transmitter enables to send actual measured data in the format of SOAP protocol. Transmitter can send measured values in XML with selected period to selected www server.

In case of exceeding adjusted limits of measured values warning message can be sent to selected addresses.

### ALARM OPTIONS

E-mail:	In case of alarm creation warning e-mail message is sent to addresses defined by the user (maximum three addresses). Basic SMTP authentication is supported.
www pages:	In case of exceeding adjusted limits of measured values active alarm is displayed at www page.
SNMP:	In case of alarm creation warning message (trap) is sent to IP addresses defined by the user (maximum three addresses).
syslog:	Transmitter enables to send text messages to selected syslog server after different events appear. E.g. after transmitter restart, alarm activation, communication error with SNMP, write to transmitter via mdb, snmp, after firmware change, after alarm termination, after communication error with SOAP server.

Synchronizing of time and record to www table and temperature history is enabled by SNTP via Internet.

**TECHNICAL PARAMETERS**

Accuracy and range of temperature:	±0.6°C, range -30 to +80 °C
Supported temperature units:	degrees Celsius, degrees Fahrenheit
Measuring range of relative humidity:	0 to 100%
Accuracy of relative humidity measurement:	±2.5% relative humidity from 5 to 95% at 23°C
Accuracy and range of dew-point temperature:	±1,5 °C at ambient temperature T < 25°C and RH>30%, range -60 to +80 °C
Accuracy of absolute humidity measurement:	±3g/m3 at ambient temperature T < 40°C, range 0 to 400 g/m3
Accuracy of specific humidity measurement:	±2,1g/kg at ambient temperature T < 35°C, range 0 to 550 g/kg
Accuracy of mixing ratio measurement:	±2,2g/kg at ambient temperature T < 35°C, range 0 to 995 g/kg
Accuracy of specific enthalpy measurement:	± 4kJ/kg at ambient temperature T < 25°C, range: 0 to 995 kJ/kg
Accuracy and range of barometric pressure:	±1.3hPa at ambient temperature 23°C, range 600 to 1100hPa
Supported pressure units:	hPa, kPa, mbar, mmHg, inHg, inH <sub>2</sub> O, PSI, oz/in <sup>2</sup>
Accuracy of CO <sub>2</sub> concentration measurement:	±(50ppm +2% from reading) 0 to 2000ppm at 25°C and 1013hPa <b>NEW</b>
Operating temperature range:	-30 to +80°C, -30 to +60°C for CO <sub>2</sub> transmitters T5540, T6540
Operating temperature range of LCD display:	readable to +70°C, it is recommended to switch OFF the LCD over +70°C
Range of temper. compensation of RH sensor:	all temperature range
Filtering ability of the humidity sensor cover:	0.025mm
Protection:	case with electronics IP30, T+RH probe IP40
LAN connector:	connector RJ-45, 10Base-T or 100Base-TX
Power:	9-30Vdc, maximum consumption about 1W.
Power over Ethernet:	for power over Ethernet any PoE splitter is necessary - e.g. D-Link DWL-P50
Power connector:	axial, diameter 5.5 x 2.1 mm
Mechanical dimensions T0510:	89 x 126 x 39.5 mm (W x H x D)
Mechanical dimensions T3510, T7510:	89 x 148 x 39.5 mm (W x H x D)

Pxxxx Txxxx

**AVAILABLE MODELS:**

MODEL	MEASURED VALUES	DESCRIPTION
T0510	temperature	<b>Thermometer</b> with built-in temperature sensor for measurement of ambient temperature
T3510	temperature humidity	Thermometer-hygrometer. Measured values are also converted to other humidity interpretation - dew point temperature, absolute humidity, specific humidity, mixing ratio or specific enthalpy.
T7510	temperature humidity barometric pressure	<b>Thermometer-hygrometer-barometer.</b> Reading and pressure output in these units: hPa, kPa, mbar, mmHg, inHg, inH <sub>2</sub> O, PSI, oz/in <sup>2</sup> Barometer enables to measure sea level pressure by setting of correction to altitude above sea level.
T5540	CO <sub>2</sub>	<b>CO<sub>2</sub> concentration transmitter - built-in sensor.</b> <b>NEW</b>
T6540	T+H+CO <sub>2</sub>	Temperature humidity CO <sub>2</sub> transmitter - built-in sensors. <b>NEW</b>

**Included accessories:**

Traceable calibration certificate from the manufacturer with declared metrological traceability of etalons is based on requirements of EN ISO/IEC 17025 standard.

Free program TSensor for configuring of the transmitter is ready to download from [www.cometsystem.cz](http://www.cometsystem.cz).

Free program SensorReader for logging values from one thermometer to a PC disk file is ready to download.

Recorded values in CSV format are easy to process in e.g. Excel.

**Optional accessories:**

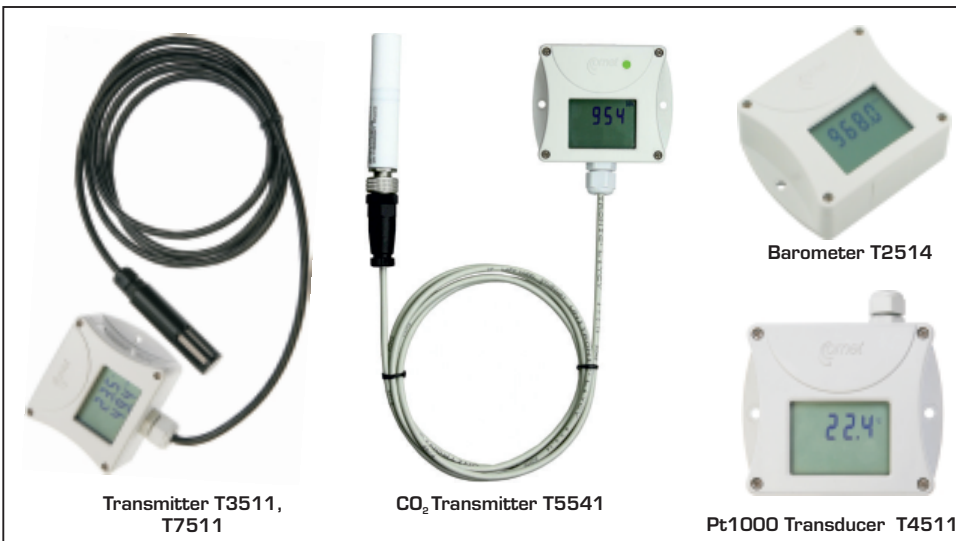
DBS Sensor Monitor - database program for online data acquisition and analysis from Comet sensors.

It contains all necessary components for monitoring of sensors, including one licence of DBV Database Viewer.

See further in catalog.

## PRECISE TEMPERATURE, HUMIDITY, BAROMETRIC PRESSURE CO<sub>2</sub> TRANSMITTERS with Ethernet interface

temperature\*barometric pressure\*relative humidity\*dew point temperature\*  
absolute humidity\*specific humidity\*mixing ratio\*specific enthalpy\*CO<sub>2</sub>



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Online data acquisition system from Ethernet transmitters can be easily built by means of Comet software **Database Sensor Monitor**.

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The CO<sub>2</sub> measurement is based on a 2-source, 2-beam process. CO<sub>2</sub> measurement with long-term stability is guaranteed thanks to the proven non-dispersive infrared (NDIR) CO<sub>2</sub> measurement cell.

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### MODES OF COMMUNICATION

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SNMP:	In case of alarm creation warning message (trap) is sent to IP addresses defined by the user (maximum three addresses).
syslog:	Transmitter enables to send text messages to selected syslog server after different events appear. E.g. after transmitter restart, alarm activation, communication error with SNTP, write to transmitter via mdb, sntp, after firmware change, after alarm termination, after communication error with SOAP server.

### TECHNICAL PARAMETERS

Accuracy of temperature measurement:	±0.4°C, accuracy of temperature transducer T4511 is ±0.2°C
Supported temperature units:	degrees Celsius, degrees Fahrenheit
Range and accuracy of relative humidity:	0 to 100%, accuracy ±2.5% relative humidity from 5 to 95% at 23°C
Accuracy and range of dew-point temperature:	±1,5 °C at ambient temperature T < 25°C and RH>30%, rozsah -60 až +80 °C
Accuracy of absolute humidity measurement:	±3g/m3 at ambient temperature T < 40°C, range 0 to 400 g/m3
Accuracy of specific humidity measurement:	±2g/kg at ambient temperature T < 35°C, range 0 to 550 g/kg
Accuracy of mixing ratio measurement:	±2g/kg at ambient temperature T < 35°C, range 0 to 995 g/kg
Accuracy of specific enthalpy measurement:	± 3kJ/kg at ambient temperature T < 25°C, range: 0 to 995 kJ/kg
Accuracy and range of barometric pressure:	±1.3hPa at 23°C, range 600 to 1100hPa
Supported pressure units:	hPa, kPa, mbar, mmHg, inHg, inH <sub>2</sub> O, PSI, oz/in <sup>2</sup>
Accuracy of CO <sub>2</sub> concentration measurement:	±(100ppm +5% from reading) 0 to 10000ppm at 25°C and 1013hPa <b>NEW</b>
Operating temperature range of the case:	-30 to +80°C
Operating temperature range of LCD display:	readable to +70°C, it is recommended to switch OFF the LCD over +70°C
Range of temper. compensation of RH sensor:	all temperature range
Filtering ability of the humidity sensor cover:	0.025mm
Protection:	case with electronics IP30, T+RH probe IP40
LAN connector:	RJ-45 connector, 10Base-T or 100Base-TX
Power:	9-30Vdc, maximum consumption 1W
Power over Ethernet:	for power over Ethernet any PoE splitter is necessary - e.g. D-Link DWL-P50
Power connector:	co-axial, diameter 5.5 x 2.1 mm
Mechanical dimensions of the case (W x H x D):	89 x 73 x 39.5 mm

### AVAILABLE MODELS:

TYPE	MEASURED VALUE	MAXIMUM MEASURING RANGE OF TEMP.,PRESSURE	DESCRIPTION
T4511	temperature	-200 to +600°C	<b>Temperature transducer</b> for external probes with Pt1000/3850ppm sensor (not included), accuracy of the input ±0.2°C
T2514	barometric pressure	600 to 1100hPa accuracy: ±1,3hPa at 23°C	Barometer - Reading and pressure output in these units: hPa, kPa, mbar, mmHg, inHg, inH <sub>2</sub> O, PSI, oz/in <sup>2</sup> Barometer enables to measure sea level pressure by setting of correction to altitude above sea level.
T3511	temperature humidity	-30 to +105°C*probe including the cable	<b>Thermometer-hygrometer.</b> T+RH probe with 1m cable. Cable lengths 2m or 4m available optionally. Measured values are also converted to other humidity interpretation - dew point temperature, absolute humidity, specific humidity, mixing ratio or specific enthalpy.
T7511	temperature humidity barometric pressure	-30 to +105°C* probe including the cable  Pressure: 600 to 1100hPa accuracy: ±1,3hPa at 23°C	<b>Thermometer-hygrometer-barometer.</b> T+RH probe with 1m cable. Cable lengths 2m or 4m available optionally. Pressure sensor is located in the control unit with display.  Reading and pressure output in these units: hPa, kPa, mbar, mmHg, inHg, inH <sub>2</sub> O, PSI, oz/in <sup>2</sup> Barometer enables to measure sea level pressure by setting of correction to altitude above sea level.
T5541	CO <sub>2</sub>	0 to 10000ppm CO <sub>2</sub> -30 to +60°C	<b>CO<sub>2</sub> concentration transmitter</b> , probe with 1 m cable, diameter 18.5mm. Available also with cable lengths 2m or 4m. <b>NEW</b>

Relative humidity at temperature over +85°C is limited in accordance with the graph. Near plastic case with electronics maximum temperature is +80°C.

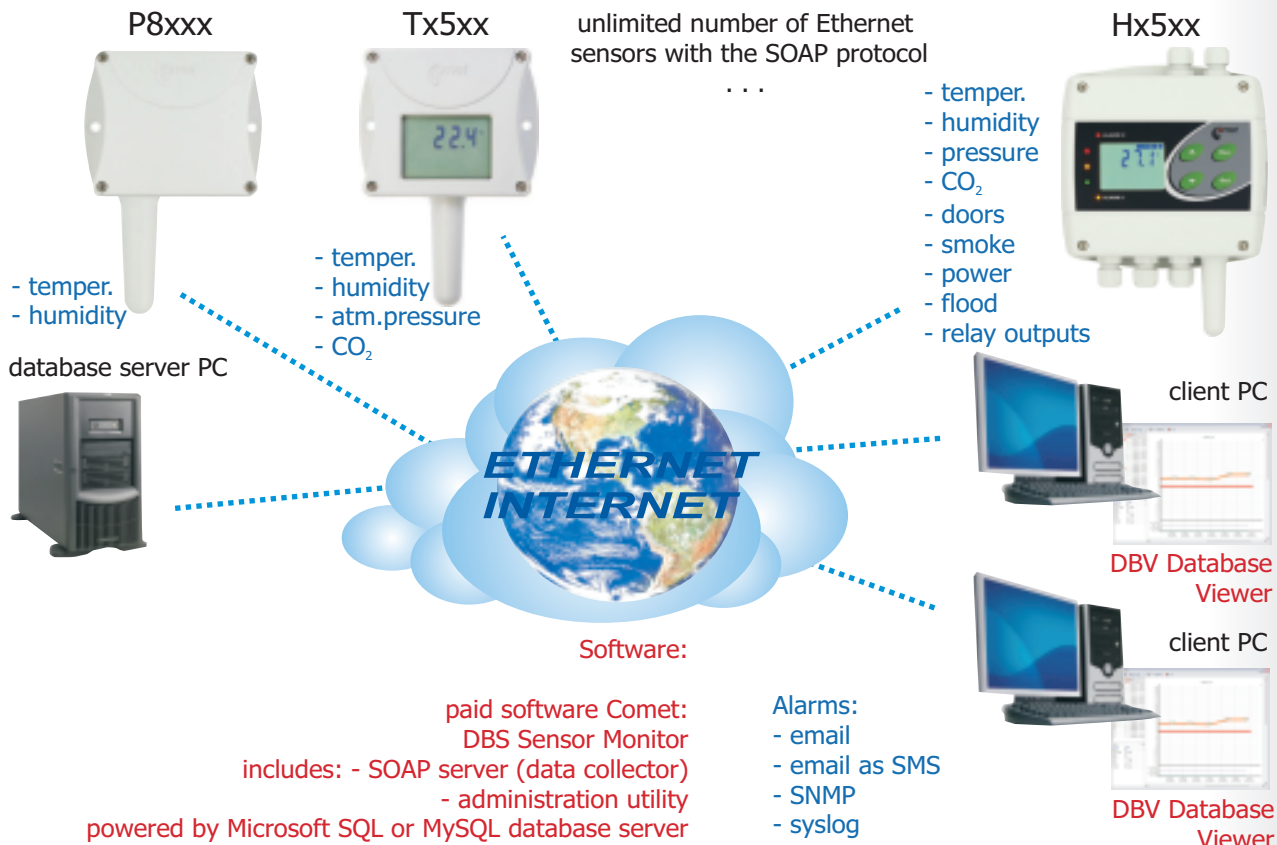


# PRECISE TEMPERATURE, HUMIDITY, BAROMETRIC PRESSURE CO<sub>2</sub> TRANSMITTERS with Ethernet interface



temperature\*barometric pressure\*relative humidity\*dew point temperature\*  
absolute humidity\*specific humidity\*mixing ratio\*specific enthalpy\*CO<sub>2</sub>

Online data acquisition system from transmitters connected to Ethernet/Internet can be easily built by means of Comet software **Database Sensor Monitor**.



Pxxxx, Txxxx

### Included accessories:

Traceable calibration certificate from the manufacturer is based on requirements of EN ISO/IEC 17025 standard.

Free program TSensor for configuring of the transmitter is ready to download from [www.cometsystem.cz](http://www.cometsystem.cz).

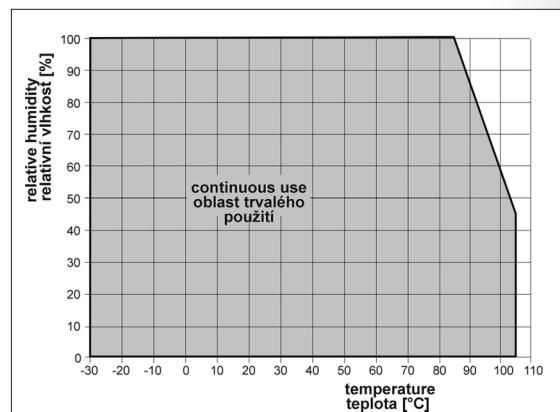
Free program SensorReader for logging values from one thermometer to a PC disk file is ready to download. Recorded values in CSV format are easy to process in e.g. Excel.

### Optional accessories:

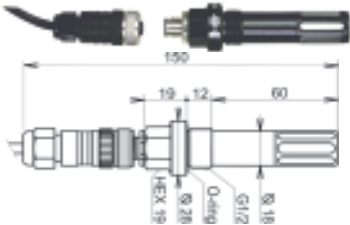






DBS Sensor Monitor - database program for online data acquisition and analysis from Comet sensors.

It contains all necessary components for monitoring of sensors, including one licence of DBV Database Viewer.

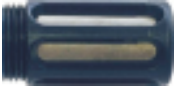




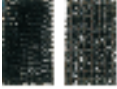
See further in catalog.



# OPTIONAL ACCESSORIES FOR HUMIDITY TRANSMITTERS

<p>New - probe for compressed air</p>	<p>Order code</p>	
	<p><b>TxxxxP</b> <b>Hxxxx1P</b></p>	<p>Optional temperature, humidity, dew-point probe designed for compressed air measurement up to 25 bars. Cable lengths 1, 2 or 4m available. Length 110mm, diameter 18mm, G1/2 thread. Available with TxxxxP, HxxxxP transmitters.</p>
	<p><b>SH-PP</b></p>	<p>Flow chamber for compressed air measurement up to 25 bars - stainless steel DIN 1.430. Inlet and outlet connection - G1/8 thread. Humidity probe connection - G1/2 thread. Screw-coupling not included.</p>
	<p><b>TxxxxL</b> <b>HxxxxL</b></p>	<p>Transmitter version with watertight male connector IP67 Lumberg RSFM4 instead of cable gland for easy connection/disconnection of the output. Specify please your order with letter L behind model code - e.g. T3110L or H3020L</p>
	<p><b>K1427</b></p>	<p>Female connector ELKA 4012PG7 for TxxxxL, HxxxxL transmitters with male connector Lumberg for easy connection/disconnection of the output. Cable is easily connected to screw terminals of the connector. IP67 protection.</p>
	<p><b>without LCD</b></p>	<p>Transmitter version with blind lid without LCD. Specify please the requirement in your order.</p>
	<p><b>OEM</b></p>	<p>Transmitters are also available without Comet logo as OEM products. Specify please the requirement in your order. Minimum order of OEM transmitters without Comet logo is 100 pcs.</p>
	<p><b>F8000</b></p>	<p>Solar radiation shield for transmitters with T+RH probe on a cable.</p>

# OPTIONAL ACCESSORIES FOR HUMIDITY TRANSMITTERS

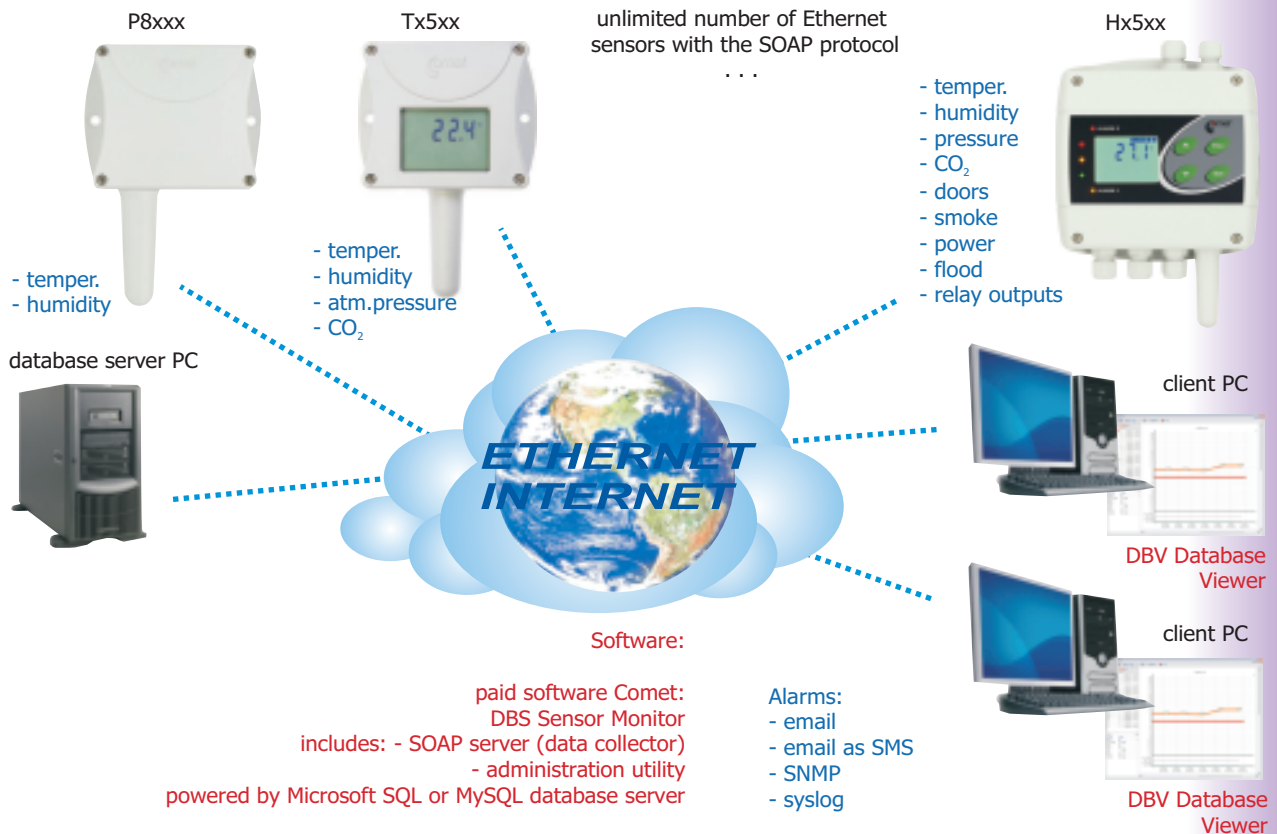
	Order code	
	F5200	grey sensor cover with filter from stainless steel mesh, filtering ability 0,025mm
	F5200B	black sensor cover with filter from stainless steel mesh, filtering ability 0,025mm
	SP003	Cable for transmitter adjustment via USB port - for models Tx1xx, Tx2xx with analog outputs and models Hx0xx.
	PP4	flat plastic circular flange for duct mounting
	PP90	right-angled stain-less steel flange for wall mounting
	SP004	plastic gland for direct mounting of the humidity probe to a 29 mm diameter hole
	SP005	tool for easy wire connection to WAGO terminals Wago - for transmitters with current and voltage output
	SP006	tool for easy wire connection to WAGO terminals Wago - for Txxxx transmitters with serial output RS485 and RS232 and Hxxxx transmitters
	MD036	self adhesive Dual Lock for easy installation
	A1515	ac/dc adapter 230V-50Hz/12Vdc for Ethernet transmitters Tx5xx, Hx5xx - with co-axial connector
	A1510	ac/dc adapter 230V-50Hz/12Vdc for serial output Txxxx transmitters and Hxxxx transmitters - for connection to terminals
	MD046	<b>ACCESSORIES FOR EASY RELATIVE HUMIDITY CALIBRATION AND ADJUSTMENT</b> anodized duraluminum vessel for relative humidity calibration and adjustment
	HM023	set of 5 humidity standards 10% RH with 5 application pads
	HM024	set of 5 humidity standards 80% RH with 5 application pads



# ONLINE MONITORING SYSTEM WITH SENSORS CONNECTED TO ETHERNET- DBS Sensor Monitor

## New

Easy creation of online data acquisition system from Ethernet temperature, humidity, pressure sensors by using low cost database software Comet DBS Sensor Monitor.



Database program DBS Sensor Monitor for online data acquisition and analysis from Comet sensors is a client-server data acquisition system. It contains all necessary components for monitoring of sensors, incl. one licence of DBV Database Viewer.

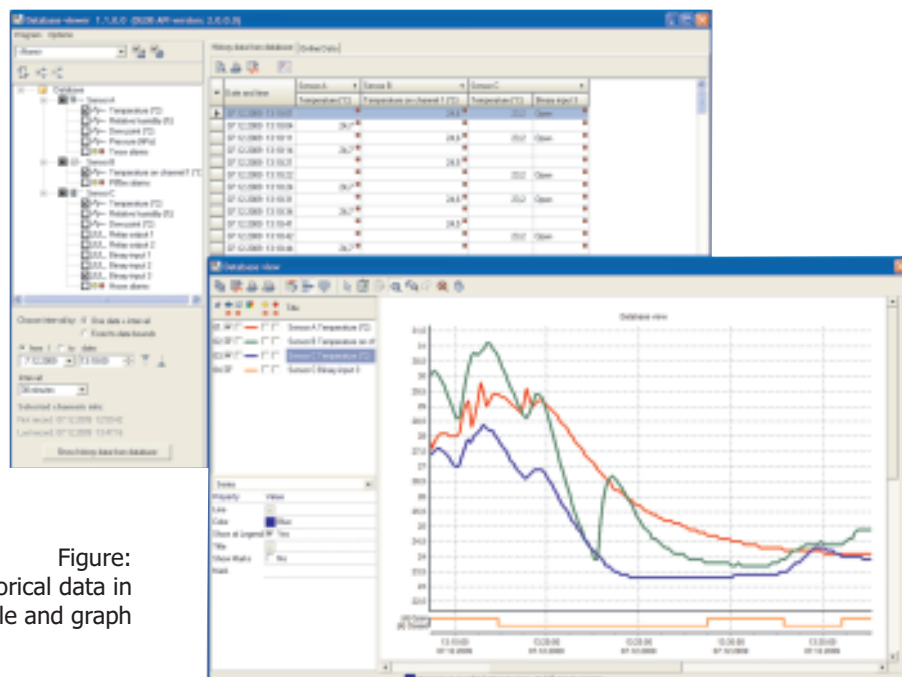


Figure:  
historical data in  
table and graph

## System enables i.a.:

- \* Data acquisition from Comet sensors connected to Ethernet network.
- \* To view selected channels from any Comet sensor together with selected channels of other Comet sensors (i.e. comparing/monitoring of values from different measurement points).
- \* Measurement from different Comet devices is possible to combine in one table or graph.
- \* To present data (temperature, humidity, pressure, binary state, etc.), alarm status.
- \* To choose any time interval for analysis.
- \* Print, export to PDF - table and graph. Export to other formats for subsequent processing.
- \* Online visualization of actual values and alarms.
- \* Online graphic visualization of measurement in curves. I.e. graph presenting actual data e.g. for last hour. The length of history is selectable. Graph is automatically updated.
- \* Compression of on-line data
  - optimizes data storing
  - in usual use reduces volume of recorded data down to 4%
  - speeds up recorded data viewing
  - database server is not overloaded even after long term operation

## The advantage is a simple system expanding:

- \* Connection of sensors is very easy thanks to the used communication protocol SOAP. Needed is only to enter server address and connect sensor to intranet/ethernet.
- \* It is possible to build large data acquisition system. SOAP protocol is commonly used in internet. Data acquisition from sensors located anywhere in the world is enabled.
- \* System can be expanded with other and other devices without any charge. Buying DBS Sensor Monitor enables to capture data from unlimited number of sensors - 2, 10 or 100 sensors.
- \* Low cost browsers DBV Database Viewer can be bought in successive steps as necessary. It enables several **clients to view database from different places on network/internet.**

## Administration of system enables i.a.:

- \* To name device in database (e.g. „sensor at warehouse“).
- \* To backup database.
- \* To diagnose error states.
- \* To administrate user accounts. DBV Database Viewers use for connection to database read-only accounts. Database is thus protected against damage by unauthorized person.

System is based on stable and world-wide popular freeware platform Microsoft SQL or MySQL.

System installation and administration is simple. Instruction Manual guides installation of the system step by step, including all needed freeware.

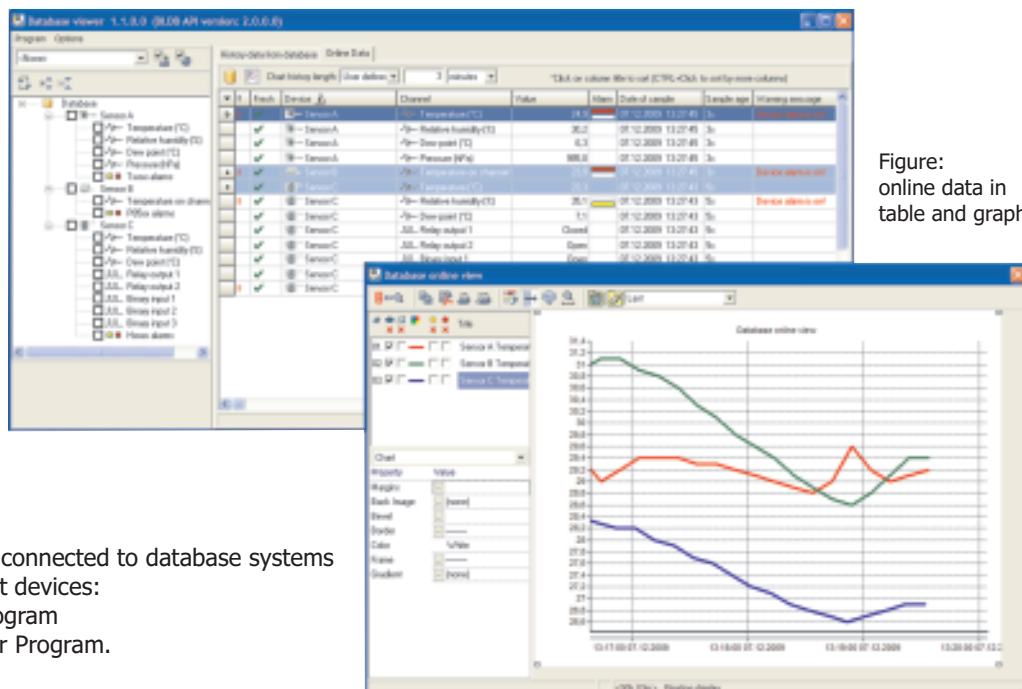


Figure: online data in table and graph

System can be connected to database systems for other Comet devices:  
 DBL Logger Program  
 DBM MS Logger Program.