










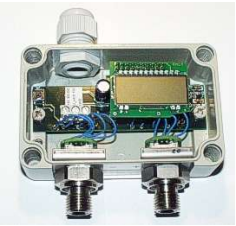





















Name	Picture	Description	Application
Pressure sensors			
Pressure sensors < 1 bar			
ZS 1 ZS 2 		ZS 1 Pressure sensor (0 - 10 mbar) ZS 2 Pressuresensor (0 – 1000 mbar) 4-20 mA, or 0 -10 V 15-30 V DC input measurement range on enquiry for air not for aggressive medium and water piezo resistive cell for positive and negative under pressure measuring	-control of air blowers -supervision of air filters -mechanical and electronic system engineering -environmental technology -liquid level control -pressure control and regulation for instance in pressure chambers -medical engineering
ZDT- N ZAT- N 	 	ZDT- N Difference pressure sensor ZAT- N Absolut pressure sensor 4-20 mA or 0-10 V (0 –1:2,4; 0- 2,5,5 10 mbar) (0-12.5;25,0 - 50 100,200 mbar) 4-20 mA or 0-10 V with and without display with and without switch function	-Filter monitoring -Medicine technology -Environment systems -Process control -Air conditioning engineering -Semiconductor production -Low pressure systems -Test technology
Pressure sensors > = 1 bar-1000 bar (or 4000 bar)			
ZS - 10 ZS - 20 ZS - 30 ZS- 40 	 	Pressure sensor ZS 10 (4-20 mA; 8 – 32 V) ZS 20 (0-10 V; 8 – 32 V) ZS 30 (0, 5 –4, 5 V ; 5 V) ZS 40 (0,5 – 4,5 V ,8-32 V) 0-4000 bar Piezo resistive high-grade-steel cell -40 to 120 °C accuracy over the range : + / -1,5% thread :M,G1/4 –G1/2,NPT ,female electrical contact : connector or cable for most industrial applications approaches for the most liquids and gases clean and wastewater, hydraulic oil, gas	-Process Control -Mobil hydraulic systems -Hydraulic, Pneumatic -Heating and air conditioning -Automotive application -Testing Technologies -Industrial Robots -Water technologies

Name	Picture	Description	Application
<p>ZS-V1 ZS V2</p> 	 <p style="text-align: center;">Top price</p>	<p>Standard pressure sensor ZSV 1 (4 - 20 mA ; 8 - 32 V) ZSV 2 (0-10 V , 8 - 32 V) 0 -1000 bar</p> <p>Piezo resistive high-grade-steel cell -40 to 120 °C accuracy over the range : + / -1,5% thread :G1/4 “ electrical contact : small Hirschmann connector for most industrial applications approaches for the most liquids and gases clean and wastewater, oil, petrol gas</p>	<ul style="list-style-type: none"> -Process Control -Mobil Hydraulic Systems -Hydraulic, Pneumatic -Heating-and Air condition -Automotive-Application -Testing machines -Industrial robots
<p>Z DT-H</p> 		<p>Differential pressure sensor (4-20 mA ,or 0 - 10 V) 3 -1000 bar</p> <p>line pressure 1: 15 with and without display piezo resistive high-grade-steel cell - 40 to 120 °C accuracy over the range :+ / -2,5% FS for most industrial applications approaches for the most liquids and gases clean and wastewater, hydraulic oil, gas diesel , petrol</p>	<ul style="list-style-type: none"> -Hydraulic -Pneumatic -Environment systems -Process control -Air conditioning engineering -Semiconductor production -Automotive application -Agricultural machine engineering -Heating -Industrial robots
Pressure switch			
Pressure switcher = < 1 bar			
<p>Z DS - N</p> 		<p>Differential pressure switcher</p> <p>with two switch outputs with and without display low pressure analog ZDT with and without display Silicon cell</p> <p>measurement ranges :</p> <p>1 2, 4 mbar 2,5, 5, 10 mbar 12,5 25, 50 mbar 50, 100, 200 mbar</p> <p>- 0 to 50 °C accuracy over the range :+ / -2,5% FS for air not for aggressive gases and water</p>	<ul style="list-style-type: none"> -Filter monitoring -Medicine technology -Environment systems -Process control -Air conditioning engineering -Semiconductor production -Low pressure systems -Test technology









Name	Picture	Description	Application
Pressure switcher > = 1 bar			
<p>DS1N</p> 		<p>electronic pressure switcher range 0- 4000 bar</p> <p>output transistor max 1A switch point, adjustable ex work, hysteresis adjustable in 0,5 % steps -20 C to 120°C standard thread G1/4 “ for most industrial applications approaches for the most liquids and gases clean and wastewater, hydraulic oil, gas diesel , petrol</p>	<ul style="list-style-type: none"> -Hydraulic -Pneumatic -Environmental technology -Process control -Semiconductor industry -Automotive -Agricultural devices -Heating systems -Robot systems
<p>DS2</p> 		<p>electronic pressure switcher with display an switch contact range 0-4000 bar</p> <p>output transistor max 1A switch point, adjustable ex work, hysteresis adjustable in 0,5 % steps -20 C to 120°C standard thread G1/4 “ for most industrial applications approaches for the most liquids and gases clean and wastewater, hydraulic oil, gas diesel , petrol</p>	<ul style="list-style-type: none"> -Hydraulic -Pneumatic -Environmental technology -Process control -Semiconductor industry -Automotive -Agricultural devices -Heating systems -Robot systems
<p>DS4</p> 		<p>electronic pressure switcher and switch contact on board measurement range 0- 4000 bar</p> <p>output transistor max 1A switch point, adjustable ex work, hysteresis adjustable in 0,5 % steps -20 C to 120°C standard thread G1/4 “ for most industrial applications approaches for the most liquids and gases clean and wastewater, hydraulic oil, gas diesel , petrol</p>	<p>Industrials measuring, hydraulics, test machines water and air management, process control</p>


Name	Picture	Description	Application
<p>ZDS-H</p> 		<p>electronic pressure switch with display two relays output 230V /3A range 0 – 2000 bar</p> <p>hysteresis adjustable in 0,5 % steps -20 C to 120°C standard thread G1/4 “ for most industrial applications approaches for the most liquids and gases clean and wastewater, hydraulic oil, gas diesel , petrol</p>	<ul style="list-style-type: none"> -Hydraulic -Pneumatic -Environment systems -Process control -Air conditioning engineering -Semiconductor production -Automotive application -Agricultural machine engineering -Heating -Industrial robots
<p>PS1</p> 		<p>Level sensor (0 - 0,1 bar to 0 - 25 bar)</p> <p>output 4-20 mA or 0-10 V for water fountain to 250 m special sensor forms for petrol, and diesel tanks 0 - 3 m</p>	<p>Measurement in</p> <ul style="list-style-type: none"> -water equipment -wells till depth of 250m -connectable with DMT-119 (Data logger)
Display device			
<p>ZHMG-01</p> 		<p>Difference Pressure Handheld Device</p> <p>Measurement range</p> <p>0 - 2,5,5,10,25,50 mbar</p> <p>0 - 100,250,500,1000 mbar</p> <p>max 0,1 . 0,3 % rapid accuracy measurement range -30°C + 130 °C for positive and negative under pressure differential pressure and volume stream</p>	<ul style="list-style-type: none"> -control of air blowers -supervision of air filters -mechanical- and system engineering -environmental technology -pressure control and regulation for instance in pressure chambers -medical engineering
<p>ZTM-100</p> 		<p>High precision handheld thermometer</p> <p>accuracy : 0,01 °C , NTC Sensor measurement range -30°C + 130 °C special sensor forms on enquiry</p>	<ul style="list-style-type: none"> -Process control from -30°C to +110°C -Measurement of body temperature from +30°C to +50° C -Climate and heating technology -Automotive technology - and laboratory use -Measurement and testing technology
<p>ZDIS-2</p> 		<p>Display device for visualization of pressure values of external pressure sensors with current or voltage output</p> <p>Instrumentation meter</p>	<ul style="list-style-type: none"> -Hydraulic -Pneumatic -Environment systems -Process control -Air conditioning engineering -Semiconductor production -Automotive application -Agricultural machine engineering -Heating -Industrial robots







Name	Picture	Description	Application
Climate sensors			
<p>KS 10 KS 11</p> 		<p style="text-align: center;">Climatic sensor</p> <p>with a 10 m cable or as put on sensor without amplifier</p> <p>range 0%- 100% rH rH = 10% - 90% +/- 2% T = -40°C + 125 °C +/- 0,1°C</p>	<p>The transmitter allows together with the data logger BS-100 and KL-200 the measurement of temperature and humidity in in-house and outdoor applications</p> <ul style="list-style-type: none"> -climate detection at structural damage -climate measurement in houses, archive and storage halls.. -weather measurement systems
<p>KS-104 KS 105 KS 110</p> 		<p style="text-align: center;">Dew point sensor inclusive Amplifier</p> <p>sensore : digital incl microcontroller dewfall resistet</p> <p>output: 0,5 V - 5,5 V / KS 104 output: 0,5 V - 5,0 V / KS 105 output : 0,5 V - 10,0 V / KS 110</p> <p>range 0% - 100% rH rH = 10% - 90% +/- 2% T = -40°C + 125 °C +/- 0,1°C</p> <p>for in-door applications ,control cubicle</p>	<p>This climate sensor enable the measuring of the humidity and temperature in in-door- and out-door-area under defined operating condition</p> <ul style="list-style-type: none"> -archiv monitoring -data logger -swimming pools -weather stations -control cubicle
<p>KS-120</p> 		<p style="text-align: center;">Climate sensor inclusive Amplifier</p> <p>output : 4-20 mA</p> <p>sensore : digital incl microcontroller dewfall resistet</p> <p>range 0 - 100% rH rH = 10% - 90% +/- 2% T = -40°C + 125 °C +/- 0,1°C</p> <p>for in -door and out –door -application</p>	<p>This climate sensor makes the measuring of the humidity and temperature possible inside and outside under defined operating conditions.</p> <ul style="list-style-type: none"> -Archive supervision -Data logger -Swimming pools -Weather stations
<p>RAT 120</p> 	 <div style="position: absolute; top: 10px; left: 10px; background-color: yellow; border: 2px solid black; padding: 5px; font-weight: bold;">new</div>	<p style="text-align: center;">Temperature Room- and Outside Sensor inclusive Amplifier</p> <p>PT 100/ PT 1000 DIN EN 60751</p> <p>range: -20 C ... + 80 C</p> <p>class B / IP 65 DIN 40050</p> <p>input: 10 ... 35 V DC</p> <p>range and sensor length at inquiry</p>	<p>This temperature sensor makes the measuring of the temperature possible inside and outside under defined operating conditions.</p> <ul style="list-style-type: none"> - Archive supervision - Weather stations - industrial applications








Name	Picture	Description	Application
KS 205 KS 210 		<p>Climate sensor inclusive Amplifier</p> <p>output : 0 - 5 V / KS 205 output : 0,5 – 10 V / KS 210 sensore : digital incl microcontroller dewfall resistet</p> <p>range 0 - 100% rH rH = 10% - 90% +/- 2% T = -40°C + 125 °C +/- 0,1°C</p> <p>for in-door and out-door application connector for cable</p>	<p>This climate sensor enable the measuring of the humidity and temperature in in-door- and out-door-area under defined operating condition</p> <ul style="list-style-type: none"> -archive monitoring -room air conditioning -weather stations
TPS-205 		<p>Dew point sensor inclusive amplifier</p> <p>output : 0 - 5 V / KS 205 output : 0,5 – 10 V / KS 210 sensore : digital incl microcontroller dewfall resistet</p> <p>range dewpoint - 50°C + 80°C dewpoint 30% - 90% +/- 2% output 0,5 V – 5 V</p> <p>T = -20°C + 80 °C +/- 0,5°K</p> <p>for indoor and out –door application connector for cable optional drew point or temperature switcher</p>	<p>The TPS-205 allows measurement of dew point and air temperature in indoor and out door areas.</p> <ul style="list-style-type: none"> -archive monitoring -room air conditioning -Data logger and special weather stations
TS-100 		<p>temperature sensor</p> <p>with 2m cable output 0,25 V = - 50 °C 4.75 V = +150 °C accuracy +/- 2 %</p>	<p>It's possible to take this Sensor for measurement in liquid and gaseous materials</p>
TS 120 	 <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);">  </div>	<p>Temperature sensor PT 100 /1000</p> <p>inclusive amplifier input : 10 - 30 V DC output : 4 - 20 mA range : - 50 - + 150°C 0 - + 100°C -20 - + 80°C accuracy < 0,1%</p> <p>standard length 30, 60, 90, 120 mm custom-built-model : at enquiry standard thread M12x1, G1/4, G1/2 accessories :pressure screw top :</p> <p>G 1 / 2" 6, 8 mm G 3 / 4" 6, 8,10 mm with high-grade-steel Teflon , delivery at without amplifier</p>	<ul style="list-style-type: none"> -Hydraulic -Pneumatic -Environment systems -Process control -Air conditioning engineering -Semiconductor production -Automotive application -Agricultural machine engineering -Heating -Industrial robots



Name	Picture	Description	Application
<p>TS-/ TSK-300</p> 		<p>Temperature sensor</p> <p>with 2m cable without amplifier sensor element PT 100 temperature range -50°C +80 °C range over+ 80 °C at enquiry for air measuring</p>	<p>This temperature sensor enable the measuring of temperature in air under defined operation conditions. The transmitter is compatible to the measurement converter of series TM.</p>
<p>CO2 sensors</p>			
<p>ZMF-100-IR-LC</p> 		<p>Infrared measuring system for CO2</p> <p>output : 4- 20 mA input : 24 V DC range : 0- 3000 ppm lifetime 10 jaar special calibration to 30 000 ppm</p>	<ul style="list-style-type: none"> -Climate measuring systems -Ventilation controls -Environmental supervision -Radiator and cold technology -Work and Fire protection
<p>ZMF-100-IR</p> 		<p>Infrared measuring system for CO2</p> <p>Industry standard</p> <p>output : 4- 20 mA input : 24 V DC range : 0- 3000 ppm lifetime 10 jaar special calibration to 30 000 ppm)</p>	<ul style="list-style-type: none"> -Climate measuring systems -Ventilation controls -Environmental supervision -Radiator and cold technology -SPS, Limit indicator
<p>Air Quality sensor CO 2</p> <p>traffic light</p> 		<p>Air quality sensor CO 2</p> <p>simple air quality sensor measured the CO2 concentration in the air and gives signals when CO2 concentration</p> <p>green 0 - 1500 ppm good yellow 1500 – 2500 ppm 1x acoustic signal reed => 3000 ppm more acoustic signal</p>	<p>Special suitable for classrooms and all rooms with many persons</p> <ul style="list-style-type: none"> -Assembly by expert not necessary -No calibration required

Name	Picture	Description	Application
<p>Air Quality sensor CO 2 traffic light with datalogger</p> 		<p>CO 2 Air Quality "Traffic Light"</p> <p>with Data Logger U = 230 V AC additional to the CO2 traffic light gives a function inclusive "data logger with PC interface ". history over more days</p>	<p>Particularly suitable for classrooms, conference room and all rooms with a high person number -Assembly by expert not necessary -No calibration required</p>
<p>Air Quality sensor CO 2 traffic light with switcher</p> 		<p>CO 2 Air Quality "Traffic Light"</p> <p>with switcher U= 230 V output : max 24 V / 3A additional to the CO2 traffic light gives a function inclusive "switcher contact"</p>	<p>Principal ingredient of a CO2 - controlled ventilation for -Classrooms, nursery schools -doctor's practices, libraries, archives university -offices, production halls, laboratories -banks, physical fitness rooms</p>
PT100/1000 Transmitter for KS 10 /11			
<p>TM-110 TM-110S</p> 		<p>TM-110 Pt 100 / Pt 1000 transmitter TM-110S Pt 100 / Pt 1000 transmitter</p> <p>with switcher function for Pt 100 / Pt 1000</p> <p>output : 0 - 10V input : 21 – 27 V DC for 2 wire wrap</p>	<p>-climatic systems -environmental technology -process control -archive monitoring -museum</p>
<p>TM-120 TM-120S</p> 		<p>TM-120 Pt 100 / Pt 1000 transmitter TM-120S Pt 100 / Pt 1000 transmitter</p> <p>with switcher function for Pt 100 / Pt 1000</p> <p>output : 4 - 20 mA input : 21 – 27 V DC</p>	<p>-climatic systems -environmental technology -process control -archive monitoring -museum</p>

Name	Picture	Description	Application
CAN – Bus Sensors			
DS-CAN-01 		<p>CAN-Bus pressure sensor</p> <p>CANopen 2.0A, CIA DS 404 physical Layer ISO 11898 2- 4000 bar Piezo resistive high-grade-steel cell 40°C to 120 °C accuracy over the range : + / -1,5% thread :M, G1/4 –G1/2,NPT, female electrical contact : connector or cable for most industrial applications median resistant to the most liquids and gases clean and wastewater, hydraulic oil, gas</p>	<ul style="list-style-type: none"> -Hydraulic -Pneumatic -Environmental technology -Process control -Climatic systems -Semiconductor industry -Automotive -Agricultural devices -Heating systems -Robot systems
TSR-CAN-01 		<p>CAN-Bus temperature sensor tube type</p> <p>CANopen 2.0A, CIA DS 404 physical Layer ISO 11898 input : 12 – 27 V DC - 40 °C - 80°C accuracy over the range : + / -1,5° K thread :G1/4 electrical contact : connector or cable for most industrial applications approaches for the most liquids and gases clean and wastewater, hydraulic oil, gas</p>	<p>This temperature sensor enable the measuring of temperature in water-hydraulic and other tubes under defined operation conditions</p> <ul style="list-style-type: none"> -water control -hydraulic tubes -brake fluid tubes etc.
DTS-CAN-01 		<p>CAN-Bus temperature pressure sensor</p> <p>CANopen 2.0A, CIA DS 404 physical Layer ISO 11898 input : 12 – 27 V DC piezo resistive high-grade-steel cell - T = - 10 °C to + 80°C - P = 2 - 4000 bar accuracy over the range : + / -1,5° K thread :G1/4 G1/2,female, M, NPT electrical contact : connector or cable for most industrial applications approaches for the most liquids and gases clean and wastewater, hydraulic oil, gas, petrol, diesel</p>	<ul style="list-style-type: none"> -Hydraulic -Pneumatic -Environmental technology -Process control -Climate systems -Semiconductor industry -Automotive -Agricultural devices -Heating systems -Robot systems
KS-CAN-03 		<p>CAN-Bus Climate sensor</p> <p>CANopen 2.0A, CIA DS 404 physical Layer ISO 11898 input : 12 – 27 V DC sensore : digital incl microcontroller dewfall resistet range 0 - 100% rH rH = 10% - 90% + / - 2% T = -20°C + 80 °C + / - 0,1°C for in door and out door application Connector for cable</p>	<p>This climate sensor enable the measuring of the humidity and temperature in in-door- and out-door area under defined operating condition</p> <ul style="list-style-type: none"> -archive monitoring -room air conditioning -weather stations

Name	Picture	Description	Application
Data logger for pressure, temperature, CO2			
<p>DMT-119</p> 		<p>Pressure logger with PC-interface</p> <p>sensor range : at enquiry 0.1- 4000 bar sensor type analog ZS 30 -xxx PC Interface inclusive data transfer software and data transfer cable MAX , MIN hold function 12 000 measurement Time interval : 0,1 to 10 sec configured over the keyboard 9 V Lithium battery data level display in % 2 connectors for sensors</p>	<p>Pressure supervision with medium-resistant pressure sensors in gases and fluids, for example: -Medicine technology: -monitoring and testing of data response of: - CPAP-instruments - respirators - inhalers - central supply of oxygen and pressure air -Water and gas installation -Hydraulic and automotive technique -Leakage measurement on pressure systems or pipelines</p>
<p>DTMT-101</p> 		<p>Pressure Temperature Measuring Terminal</p> <p>sensor range : at enquiry P = 0,5 bar - 4000 bar T = -50°C to +150°C T- sensor analog TS 100 P sensor typ analog ZS xxx PC Interface inclusive: data transfer software and data transfer cable MAX , MIN Hold function 12 000 measurement Time interval : 0,1 to 10 sec configured over the keyboard</p>	<p>Pressure monitoring with media resistant pressure sensors for liquids or gases in connection with temperature monitoring Examples: -Water- and Gas-installations -Hydraulics, automotive applications -Leakage measuring in pressure systems and pipes -Medical applications</p>
<p>KL-201</p> 		<p>CO2 - Climate Measuring System</p> <p>Logger function :</p> <p>temperature -20 °C to +80°C Humidity: 0-100% (10-90% +/- 2%) CO 2 :0 - 3000 ppm</p> <p>MAX , MIN HOLD function</p> <p>data transfer to PC included data transfer cable and software Language : Germany / English data level display in %</p> <p>U= 24 V DC over 230 V AC plug-in power module</p>	<p>measuring and logging of climatic and CO2-data monitoring of fresh food containers monitoring of construction status</p>

Name	Picture	Description	Application
<p>KLA</p> 	 <p>new</p> 	<p>Climate measuring with ventilation alarm</p> <p>-with to max. 5 extern temperature and humidity transmitter</p> <p>-for the transmission of outdoor temperature and humidity</p> <p>-with temperatur and humidity display</p>	<p>Living rooms</p> <ul style="list-style-type: none"> -Control of the climate and the ventilation in living rooms to DIN1946 by a regular climate note -to DIN1946 by a regular climate note PC -Memory function to the need dependent window ventilation by adjustable climate limiting values -Proof leadership of a regular ventilation at appearance of humidity damage <p>Outdoor</p> <ul style="list-style-type: none"> -By the use of outdoor sensors (transmitters of 433 MHz) frost warning can be given for example -Note of climate data to the weather analysis -Warning of ice danger <p>Storehouses</p> <ul style="list-style-type: none"> -Note of data to the temperature- and humidity monitoring -Alarm function at increased temperature and low humidity (danger of fire)
<p>Moisture, air quality, desiccation controll units</p>			
<p>HGL-2010</p> 		<p>Hygrostat-controlled ventilation with electrical window opener or ventilator</p> <p>over the switchbox for humidity you can adjust the relaiiv hudidity in your bath,sauna ,fitnesscenter wash room or cellar .Is the limit value over the adjustvalue value open automatical the window</p> <p>The window clod when ist the humidity under the limit value</p>	<p>The installation has to be carried out under consideration of the appropriate valid regulations and standards. For the assembly of the window opener or the ventilator please pay attention to the assembly instructions or engage an installation expert. Ventilating of moist atmospheres how</p> <p>Bath, kitchen</p> <p>Taking a shower rooms in sport places and fitness centers</p>
<p>LGS-2010</p> 		<p>CO2 - Air Quality Control with electrical window opener or ventilator</p> <p>the CO 2 sensor detected CO2 Is the value >3000 ppm open die electrical windoeopener the window</p> <p>The window closed, when is the CO2 value under 3000 ppm . the switcherpoint for CO2 sensor is adjustable .</p>	<p>CO2 - led reveal of</p> <p>Classrooms, nursery schools</p> <p>doctor's practices, libraries, archives</p> <p>offices, production halls, laboratories</p> <p>banks, physical fitness rooms</p>

Name	Picture	Description	Application
<p>ES1</p> 		<p>Desiccation control (Measuring and control unit for desiccation of buildings)</p> <p>Equipment :</p> <ul style="list-style-type: none"> 1 climate sensors type Ks 205 put on the control unit 1 climate sensor type KS 205 with 10 m cable for outside 1 control unit output 4 relays for 230 V max 95 Watt <p>Function :</p> <p>The ES 1 is a simple control unit for desiccation from rooms humidity</p> <p>The ES1 measured over a climate sensor the climate (rH and T) outside the house . With a second climate sensor the climate in door room The unit calculated the absolute humidity outside the house and inside the house Is the absolute humidity outside smaller as inside, start the unit max 1 - 4 ventilator or window opener. The air from outside joint the air with the higher humidity air and the ventilator transported the air outside .The process is so long to the indoor room dryer is.</p>	<p>building desiccation (new building) twofold air change / hour recommendation masonry drying</p>