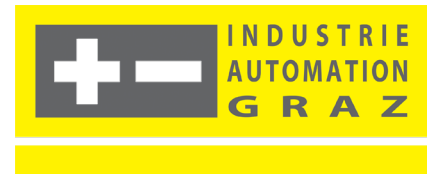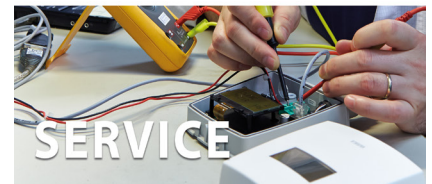**MEASURE it ...**

PRODUCTS 2022

PROCESS

HVAC

ENVIRONMENT

SERVICE

WWW.IAG.CO.AT

MEASURE it ...

We help our customers in the field of process, air conditioning and environmental technology with innovative measurement and monitoring solutions.

We know how to measure physical parameters such as humidity, temperature, flow, pressure, turbidity / consistency, particles / aerosols and gas components to optimize your processes in terms of efficiency, safety and environmental impact. Our customers work in a wide variety of industries, such as automotive, paper, chemicals, energy and power plants, steel, food, life sciences, oil and gas as well as water and wastewater.

Request consulting, engineering, training, repair or calibration services from us.

Wolfgang Häusler
Managing Director

INDUSTRIE AUTOMATION GRAZ
Ing. W. Häusler GmbH
Autaler Straße 55 - A-8074 Raaba-Grambach
T: +43 316 405 105 - F: +43 316 405 105 22
office@iag.co.at - www.iag.co.at

CONTENT

PROCESS

HVAC

ENVIRONMENT

HANDHELD METERS

SERVICE

Indigo 200 and 500 Series

Series 200 and 500 Indigo Transmitter...

- Universal transmitter for Vaisala Indigo compatible probes
- WLAN interface for configuration and temporary use
- Operating temperature: –40 ... +60 ° C, with display –20 ... +60 ° C
- LCD color display (analog model optionally without display)
- Indigo 200 housing with protection class IP65
- Indigo 500 metal housing with IP66 protection
- 24 V supply voltage

Intelligent probes

Humidity- and Temperature-Probes with digital Modbus RTU-communication...

- HMP3 for general-purpose probes with interchangeable sensor -40°C ... +120°C
- HMP4 for high-pressure applications -70°C ... +180°C
- HMP5 for high temperature -70°C ... +180°C
- HMP7 for constant high humidity -70°C ... +180°C
- HMP8 for pressurized applications -70°C ... +180°C
- HMP9 for rapidly changing environments -40°C ... +120°C
- TMP1 for demanding temperature measurements -70°C ... +180°C
- Plug & Play compatible with Indigo series

HPP272

Hydrogenperoxideprobe with humidity and temperature...

- Excellent long-term stability
- Measurement temperature range 0...100 % rF, +5 ... +50 °C
- Corrosion-resistant stainless steel housing, IP65
- compatible with the Indigo Transmitter
- Traceable calibration certificate
- Standalone probe with digital Modbus RTU over RS-485 or 2 analog outputs
- for bio-decontamination

HMT330

Humidity- and Temperaturetransmitter for demanding humidity measurement ...

- HMT331 for wall mounting
- HMT333 for duct mounting and tight spaces
- HMT334 for high pressures
- HMT335 for high temperatures
- HMT337 for high humidity and meteorological applications
- HMT338 for pressurized pipelines

HMT370

Intrinsically Safe Humidity and Temperature Transmitters for explosive environments ...

- HMP371 for wall mounting
- HMP373 for confined spaces
- HMP374 for high pressure
- HMP375 for high temperature
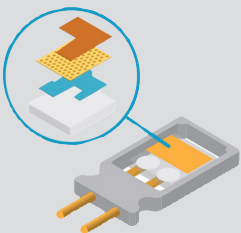- HMP377 for high humidites
- HMP378 for pressurized pipelines

HMT310

Humidity- and Temperaturetransmitter for demanding industrial applications ...

- small size, easy to integrate
- full measurement 0...100 % RH
- Temperature range up to +180°C
- Insensitive to dust and most chemicals
- NIST traceable calibration (certificate included)

HUMICAP TECHNOLOGY

The HUMICAP sensor is a thin-film polymer capacitive sensor consisting of a substrate on which a thin polymer film is deposited between two conductive electrodes. The sensor surface is coated with a porous metal electrode to protect it from contamination and condensation. The dielectric properties of the polymer film depend on the amount of water absorbed. These properties change as the relative humidity around the sensor changes.

HMT120/130

Humidity- and Temperaturetransmitter for Cleanroom- Applications ...

- Easy maintenance on site through interchangeable probe
- Wall-mounted or with a remote probe
- Enclosure IP65
- Resistant to dust and most chemicals
- Suitable for cleanrooms and demanding HVAC and light industrial applications

HMP60/110

Humidity and Temperature probe in miniature format...

- ±1.5 %RH measurement accuracy
- Low power consumption
- Measurement range: 0 ... 100 %RH; -40 ... +80 °C
- IP65 metal housing
- Optional RS-485 digital output supports Modbus RTU
- Optional dew point calculation

OPT100

DGA Monitor for Power transformers ...

- Gases H_2, CO, CO_2, CH_4, C_2H_6, C_2H_4, C_2H_2, H_2O
- IP66 housing
- Unique auto-calibration eliminates long-term drifts
- Continuous real-time monitoring
- Browser-based user interface
- Installation and commissioning in less than two hours

MHT410

Moisture-, Hydrogen- and Temperature Transmitter ...

- Monitors health of the transformer in real time
- Measures moisture and hydrogen directly in representative oil
- Real-time warning on transformer faults
- Unique probe design, robust and easy to install
- Housing Classification IP66

MMP8

Measuring probe for oil moisture..

- Continuous online measurement of oil moisture and temperature
- Temperature measuring range –40 ... +180 °C
- Measurement accuracy up to ±0.01 aw(±1% rS)
- Vaisala HUMICAPâ Sensor - proven for more than 15 years in moisture measurement in oil
- Modbus RTU over RS-485
- Compatible with Indigo transmitters and PC software Insight

MMT330/310

Moisture and Temperature Transmitter Series for Oil ...

- Continuous online measurement of moisture in oil
- Installation through ball valve, no need to shut down the process
- Proven Vaisala HUMICAP® sensor
- Transmission over LAN or WLAN
- Integrated data logging, with over four years of measurement history
- Traceable calibration to national standards

MMT162

Compact Moisture in Oil and Temperature Transmitter ...

- Continuous measurement of moisture in oil
- Excellent pressure and temperature tolerance
- Digital output RS-485 with Modbus
- Proven Vaisala HUMICAP technology
- Compact, accurate and economical
- Compatible with MI70 evaluation unit

Indigo 200 and 500 Series

Series 200 and 500 Indigo Transmitter...

- Universal transmitter for Vaisala Indigo compatible probes
- WLAN interface for configuration and temporary use
- Operating temperature: −40 ... +60 ° C, with display −20 ... +60 ° C
- LCD color display (analog model optionally without display)
- Indigo 200 housing with protection class IP65
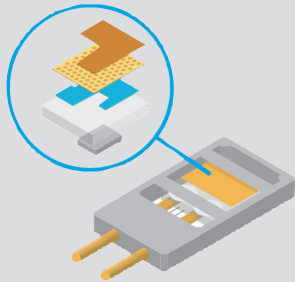- Indigo 500 metal housing with IP66 protection
- 24 V supply voltage

Intelligent Probes

Dewpoint probes with digital modbus RTU transmitter ...

- DMP5 for inline measurement at high temperatures <180 ° C
- DMP6 for inline measurement at very high temperatures < 350°C
- DMP7 for remote installations in confined spaces
- DMP8 with adjustable installation depth for pressure lines (<40 bar)

DRYCAP TECHNOLOGY

The unprecedented performance of the DRYCAP is based on two innovations: the proven capacitive thin-film polymer sensor and the auto-calibration function. The sensor's thin film polymer absorbs or releases water vapor as the ambient humidity increases or decreases. The capacitance is converted to a readable humidity value. The capacitive polymer sensor is connected to a temperature sensor and the dew point is calculated from the humidity and temperature readings.

DMT340

For demanding applications with low humidity ...

- Measures dew point from -70 ... +80 °C with an accuracy of ±2 °C
- Vaisala DRYCAP Sensor for accurate measurements
- Optional alarm relays and mains power supply module
- Graphical display and keypad for
- convenient operation
- Up to three analog outputs, RS-232/485, LAN
- Unique auto-calibration feature maintains accuracy over long term

DMT143(L) / DMT152

Miniature Dewpoint Transmitter for OEM Applications ...

- Ideal choice for industrial drying facilities
- Long-term stability even at low temperatures
- Two sensor types to cover the entire measuring range from -60 ... + 60 ° C
- DMT152 has a measuring range of -100...+60°C
- Compatible with the portable dew point meter DM70
- High response speed
- Insensitive to condensation

DPT146

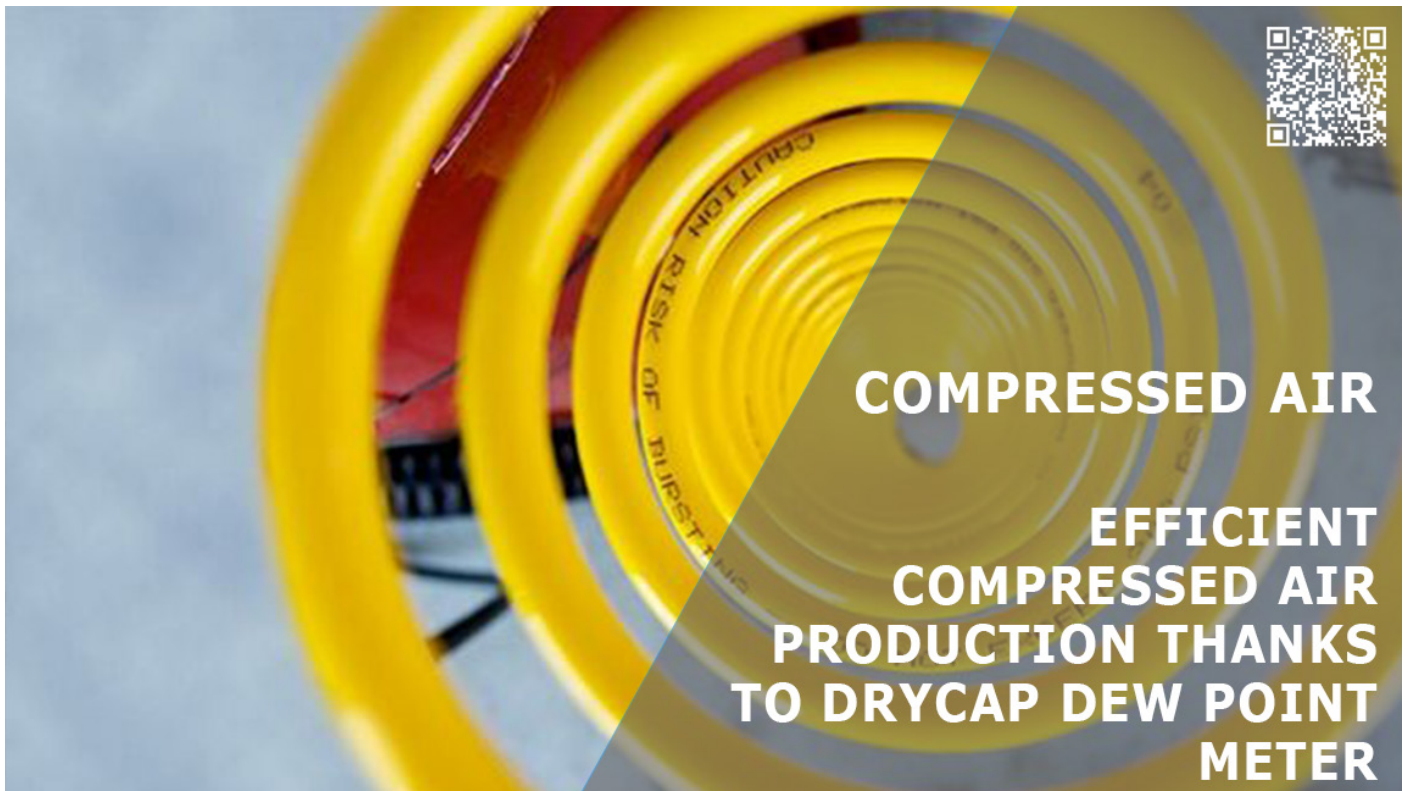**Dew point and pressure sensor for Compressed air ...**

- The first transmitter that monitors both dew point and process pressure
- Highly accurate humidity information thanks to dew point data coupled with live pressure input
- Compatible with the Vaisala Hand-Held DM70 for easy spot-checking, local display and data logging
- Dew point: -70 … +30 °C

DMT345/346

Dewpoint Transmitters for High Temperature Applications ...

- DMT345 measures humidity at temperatures up to 180 °C
- DMT346 measures humidity at temperatures up to 350 °C
- Unique auto-calibration feature
- Graphical display and keypad forconvenient operation
- Provides accurate and reliable measurement with excellent long-term stability and fast response time
- Condensation-resistant

COMPRESSED AIR

EFFICIENT COMPRESSED AIR PRODUCTION THANKS TO DRYCAP DEW POINT METER

VG, VT

Pressure / level transmitter for measurements in gases, vapors and crystallizing liquids ...

- In analog technology and as a smart device (HART®)
- For the measuring range 0.1 ... 100 MPa
- Excellent temperature compensation
- Is equipped with a piezoresistive sensor
- Measuring range dynamics 100: 1
- Hygiene certificate EHEDGE
- Accuracy +/- 0.05% of the span

VDt, VDU, VDtL

Differential pressure transmitter for measurements of level, flow, differential pressure and density ...

- In analog technology or as a smart device (HART®)
- For the measuring range min. Measuring range 0-0.01 kPa, max. Range 0-15 MPa
- Is equipped with a piezoresistive sensor
- Accuracy +/- 0.05% of the span

PASVE

Special ball valve for level, PH and Pressure transmitter ...

- Transmitters can be easily and safely disconnected from the process for maintenance and cleaning - without interrupting the process
- Available with electric and pneumatic drives or as manual operation
- operating Temperature -50°C ... +200°C
- Different materials and diameters available
- Many pH probes can be adapted

PASVE S, HS

Hygiene Sample System...

- Easy and safe installation
- Simple and error-free operation
- 10 bar, 120 ° C max. Process

454FTB/K-BAR 2000

Immersion mass flow meter for gases ...

- Ideal for harsh environments (dust, chemicals, wet gas)
- Inline Meter
- Highly dynamic measurements up to 325m / s
- For measurements up to 500 ° C
- QAL1 Certified
- Multipoint measurement

10

534FT/504FTB

Inline mass flow meter for gases ...

- Ideal for harsh environments (dust, chemicals, wet gas)
- Measuring tube
- Highly dynamic measurements up to 11,000 Nm3 / h
- low pressure drop (patented technology)
- short inlet and outlet sections
- Measuring tube available in 1/2 "to 8"

VORTEX TECHNOLOGY

Flow rate and flow velocity measurement in wet and/or particle-laden gases, such as biogas or exhaust gas, also in accordance with TA Luft, 13th and 17th BImSchV; Flow measurement of activated sludge air, sewage gas, landfill gas and water vapour; engine intake air flow measurement on test benches; Flow measurement in climatic wind tunnels, in diluted automobile exhaust, in traffic tunnels and in nuclear reactor technology.

Vortex VA

Vortex meter for flow measurement in gases ...

- Low pressure loss and high measuring dynamics with measuring range start from 0.5 m / s
- Vortex as immersion sensor
- High long-term stability, without moving parts
- Insensitive to particles and condensate
- For measurements according to TA13. and 17th BImSchV
- SIL2 and for use in Ex areas

Thermal TA

Thermal flow measurement in gases ...

- Special design for the continuous measurement of laminar flows
- Measuring dynamics from 1: 1000 (0.2 ... 200m / s)
- Various gas curves (air, argon, etc.) stored for quick commissioning on site
- Configure on site using the easily exchangeable housing cover with display and buttons

Vane Wheel FA

Vane anemometer for flow measurement in liquids / gases ...

- High response behavior and no braking effect thanks to proximity sensor as speed sensor
- Extremely robust bearings for a wide range of applications
- Optionally with direction detection for precise detection of bidirectional flow velocities
- Frequency adjustment and calibration for easy replacement of flowmeters of the same type
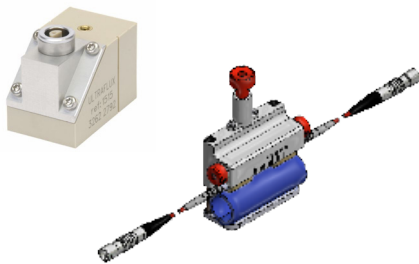- Also suitable for aggressive media with temperatures up to 550 ° C

UF811/821/831/841

Ultrasonic flow meter for liquids ...

- Measures the speed of the liquid with ultrasound
- Calculates the average speed in the pipe or flow
- ATEX, Modbus, relays, analog outputs
- UF841 especially for EEX areas
- Control of the ultrasound signal (Echo Shape)

SE1714/1586/1662

External probe sets for ultrasonic flow meters ...

- Push-pull clip-on probes
- Depending on the probe, temperatures from -10 ° C to + 180 ° C
- IP protection type: IP67
- Outer tube diameter from 10mm to 10000mm

ALTImass

Coriolis Flow meter with high accuracy...

- Type U - U-shaped, highest accuracy, temp. Up to + 350 ° C
- Type S - straight pipe, for clean processes, temp. Up to + 130 ° C
- Type B - small size, low price, temp. Up to + 125 ° C
- Illuminated display with alarm function
- Fast response time, even for low flow rates
- Improved zero point stability
- For hygiene applications, EHEDG certificate
- Can be used for the high pressure range up to approx. 120MPa

VORTEX-Flow meter

Vortex flow meter for high temperatures ...

- Operating temperature up to + 460 ° C
- Flow meters also available with pressure compensation
- IP66 (DC), IP65 (battery operated)
- Low pressure loss due to the lack of moving parts
- Interchangeable sensor
- High repeatability
- Smart Type / Smart Communication Unit

PD Flow meter

Flow meter with displacement principle ...

- No external energy is needed
- The flow rate is calculated from the number of revolutions of a rotor
- High measuring accuracy, low pressure loss
- For a wide range of applications
- High repeatability
- Also for high temperatures up to + 200 ° C

Indigo 200 and 500 Series

Series 200 and 500 Indigo Transmitter...

- Universal transmitter for Vaisala Indigo compatible probes
- WLAN interface for configuration and temporary use
- Operating temperature: −40 ... +60 ° C, with display −20 ... +60 ° C
- LCD color display (analog model optionally without display)
- Indigo 200 housing with protection class IP65
- Indigo 500 metal housing with IP66 protection
- 24 V supply voltage

GMP251/GMP252

CO2 probes for measurements in the volume percentage range and in the ppm range with digital Modbus RTU transducer

- Measuring range 0 ... 10000ppm CO_2 and 0 ... 20% CO_2
- Intelligent standalone probe with analog and digital outputs
- Wide operating temperature range from -40 ... + 60 ° C
- Housing with protection class IP65
- Heated sensor head to avoid condensation
- Complete temperature and pressure compensation
- Can be connected to the Indigo host device

CARBOCAP TECHNOLOGY

The Vaisala CARBOCAP® sensor features an electrically tunable FPI filter. In addition to measuring gas absorption, the micro-machined FPI filter allows a reference measurement at a wavelength where no absorption occurs. The reference measurement compensates for possible changes in light source intensity, as well as contamination and dirt accumulation in the light path. This feature means that CARBOCAP® sensor operation is very stable over time.

GMP343

Carbon dioxide probe for demanding measurements ...

- Single-beam / bi-frequency CO2 measurement with no moving parts
- Highest accuracy and stability
- Compensation options for temperature, pressure, humidity and oxygen
- Low power consumption and heat emission
- Designed for outdoor applications
- Compact and light

GMP231

Carbon dioxide probe for CO2 incubators ...

- Sensor temperature resistant up to + 180 ° C
- Designed for OEM use with CO2 incubators
- Integrated pressure and temperature measurement improves accuracy and stability
- Heated sensor head to prevent condensation
- Latest infrared CO2 sensor technology
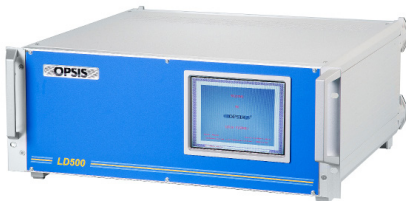- Traceable 4-point CO2 calibration

System 400

Continuous emission monitoring ...

- Based on the Opsis UV / FTIR-DOAS technology
- Fast response and optimal detection of all gases
- A single system can record all gases relevant to emissions monitoring
- Built-in internet interface and web logger
- Works with a minimum of maintenance
- NO, NO2, SO2, H2O, CO2, HCl, HF, NH3

LD 500

Laser diode gas analyzer ...

- Represents the central unit in a laser diode gas monitoring system
- Integrated PC with LCD display
- Can accommodate up to 3 laser diode modules
- Measurement on up to 8 measuring sections possible
- Fast measuring method

O2000

Oxygen gas analyzer ...

- Continuous on-site oxygen measurement
- Easy installation and commissioning
- Two probes can be used per analyzer
- Galvanically isolated current and alarm outputs
- Modbus RTU communication (option)

PM10 MONITOR SM200

Accurate and reliable automatic particle measurement...

- Measurements of PM10 particle fraction concentrations in ambient air
- Speed of 1.0 or 2.3 cubic meters per hour
- 47mm Teflon filter
- beta mitigation process
- Analysis of the specific composition of the particles

MGP261

Multi-gas measuring probe for methane, carbon dioxide and moisture ...

- Excellent long-term stability and repeatability with proprietary infrared technology
- Direct installation in the process
- The probe heating prevents condensation in high humidity environments
- Corrosion-resistant stainless steel housing (IP66)
- Certified for Ex zone 0/1

VOM, VOA

Turbidity and solids analyzer for measuring liquids ...

- Measuring range: 0 ... 300,000 NTU
- Temperature: -30 ° C to 140 ° C
- Pressure: PN40 - 1 to 250 bar
- EHEDG certified
- Reflective measuring principle
- CIP processes, filter monitoring, interface measurement
- Cost and time savings
- Freely scalable and calibratable measuring ranges

VOF/VOD

Turbidity and solids analyzer for the food and biopharmaceutical industry ...

- Measuring range: 0 ... 1500 NTU
- Temperature: -30 ° C to 140 ° C
- Pressure: PN40 -1 to 250 bar
- EHEDG certified
- Absorbing measuring principle
- Automation, filter monitoring, reverse osmosis, separator
- Monitoring of clean water, yeast after the membrane in breweries, ...

VC

Optical consistency meter for measuring the overall fabric density, ash content and Schopper-Riegler ...

- Accurate and reliable consistency measurements without regular maintenance up to 12% Cs
- Can be connected to and removed from the process using a 1 "ball valve connection
- Safe removal of the transmitter without stopping the process - automatic cleaning possible
- Process temperature from -30 ... + 140 ° C
- Easy calibration

SAVE

Sampling valve for all types of pulp ...

- For the safe sampling of pulp
- Consistency range: 0 ... 18% Cs
- Manual or pneumatic operation
- Water flushing

DT90(L)

Intelligent multi-purpose data logger ...

- 10 to 48 analog inputs
- Robust, stand-alone, low-power data logger
- Up to 10 isolated or 15 common analog inputs in many combinations
- Can be expanded to up to 960 analog inputs
- USB memory for easy data and program transfer
- 2 serial Smart Sensor connections, SDI12, Modbus
- WiFi, Ethernet
- WEB server, FTB

DT80 / DT85

Intelligent multi-purpose data logger ...

- 10 to 48 analog inputs
- Robust, stand-alone, low-power data logger
- Up to 10 isolated or 15 common analog inputs in many combinations
- Can be expanded to up to 960 analog inputs
- USB memory for easy data and program transfer
- 2 serial Smart Sensor connections, SDI12, Modbus
- WiFi, Ethernet
- WEB server, FTB

CEM20

Channel expansion module for DT80 series ...

- Extension of the number of channels for the DT80 / DT85 by 20 channels
- With the DT80, the number of channels increases to 300 analog inputs, with the DT85 to an incredible 960 inputs

Software Datataker

Software, firmware and drivers ..

- dEX 2.0: simple representation of the measured values in tables, diagrams and graphics
- DataTaker Live: Data acquisition and monitoring from your PC, smartphone or tablet
- USB flash drive firmware
- Modem firmware
- USB driver
- DataTaker Labview driver

EXTEND THE LIFE OF YOUR TRANSFORMER!

HMT120/130

Humidity and temperature sensors for clean rooms and demanding HVAC applications ...

- Configuration with two-wire loop supply or three-wire voltage output
- Room sensor or with cable probe
- Resistant to dust and most chemicals
- USB cable for PC connection available for maintenance purposes
- Traceable 3-point calibration
- Housing protection class IP65

HMD62

Humidity and temperature sensors for channels ...

- For light industrial applications and demanding HVAC applications
- Measuring accuracy up to ± 1.5% RH and ± 0.1 ° C
- 4 ... 20 mA analog output
- Insensitive to chemicals and dust
- IP66 rated housing

HMDW110

Humidity and temperature sensor series for high-precision measurements in HVAC applications ...

- IP65 classified humidity / temperature sensor HMW110 / 112 for wall mounting in wet areas
- Humidity and temperature sensor HMD110 / 112 for duct mounting
- Combined outdoor humidity / temperature sensor HMS110 / 112
- Accuracy of ± 2% RH
- On-site calibration with HM70 handheld measuring device

GMDW20

CO2 sensor for demand-controlled ventilation ...

- Leak-insensitive measurement directly in the duct
- Includes the Vaisala CARBOCAP® silicon-based NDIR sensor
- Excellent long-term stability
- Negligible temperature dependence
- Recommended calibration interval of five years
- Two-year warranty

HMDW80

Humidity and temperature sensor series for standard HVAC applications ...

- Room temperature sensor TMW82 / 83
- Combined room humidity / temperature sensor HMW82 / 83
- IP65-classified, room humidity / temperature sensor HMW88 / 89 (D) with and without display for wet areas
- Combined duct humidity / temperature sensors HMD82 / 83 (D) with and without display
- Combined outdoor humidity / temperature sensor HMS82 / 83

TMI110

Immersion temperature transmitters for high-precision measurements in HVAC applications...

- Precise temperature measurement of liquids and air
- Very fast response time of the measurement
- Traceable 1-point calibration (with certificate)
- Analog output (4 … 20 mA) and Modbus RTU output (optional)
- Installed in a thermowell for measurements in liquids

PUC24/PUC28

Clean room panels for climate data display ...

- Measuring ranges: ± 100 Pa or ± 250 Pa freely scalable within this range
- Integrated, highly accurate differential pressure measurement
- Stainless steel solvent-resistant surface
- 3 analog outputs, optional digital interface
- Acoustic alarm when the set limit is exceeded, can be acknowledged using the button
- Optical alarm signal when warning values are exceeded
- Process panel also available in polished aluminum

P26

Differential pressure transmitter for top hat rail or wall mounting ...

- Pressure transmitter with freely scalable measuring range:
- 10/50/100/250/500 Pa, 1 / 2.5 / 5/10/20/50/100 kPa
- Protected against pressure peaks and incorrect operation
- 2 adjustable limit switches enable the connection of e.g. B. fans or signal generators
- Saving additional circuitry
- Can also be used for volume flow measurement or with the „Air meter" option for recording air consumption

P34

Differential pressure transmitter with minimal External dimensions - ideal for installation in control cabinets ...

- Measuring ranges: 10/50/100/250/500 Pa, 1 / 2.5 / 5/10/20/50/100 kPa, freely scalable from 10 .. 100% within a measuring range
- Optionally with temperature analog input and internal stat. Pressure sensor for P- / T-compensated volume flow
- Optional with relay
- Volume flow configurable via k-factor, dPmax / Vmax or 20 individual values
- USB interface: via PC software (password-protected) scaling, characteristic curve shape and much more parameterizable
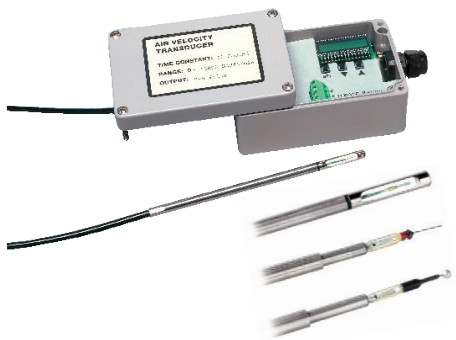
PS17

Compact pressure transmitter for basic applications ...

- Measuring ranges: 50/100/200/500 Pa, 1 / 2.5 / 5/10 kPa
- Robust ABS housing with IP 65 for top hat rail or wall mounting (with only 2 screws)
- Optionally with a defined measuring range or switchable between 4 measuring ranges each
- Selectable output signal 0/2 .. 10 V or 0/4 .. 20 mA
- Selectable attenuation of the output signal of up to 10 s

Transducer

Air velocity transducer for measurement in research laboratories and manufacturing processes ...

- Measuring range: 0.125 - 50 m / s
- Protected probe tip
- Available with probe lengths 7.5 cm, 15 cm, 22.5 cm and 30 cm
- Resistant ceramic sensor
- Wide range of measurement applications

Pitot tubes

Pitot tubes made of stainless steel with an elliptical head shape ...

- Measurement of the flow velocity of air or gases in air lines and ducts
- Pitot tube for measuring the total pressure and a probe for measuring the static pressure
- High temperature resistance (up to + 800 ° C)
- Large selection of lengths and pipe diameters
- Reduction of the measurement error by different flow angles

Flowgrids

Volume flow differential pressure transmitter for measuring the flow in air ducts ...

- Suitable for round or square channels
- Precise installation in the sewer
- Numerous measuring points with pitot tubes arranged in parallel as a grid or star-shaped around a hub
- Highest accuracy
- Round storage grids are available in stainless steel or optionally in aluminum (150 .. 560 mm)
- Small inlet and outlet sections

CMS - Viewlinc

Continuous surveillance system from Vaisala for the life science sector ...

- Seamless monitoring even during power and network failures
- Real-time monitoring and alarms with customizable reports
- Easy installation and validation with optional IQOQ protocols
- Includes software, data loggers and measuring devices as well as services

Data logger

Data logger for the Vaisala surveillance system ...

- Temperature logger - all data is recorded and saved at the measuring point
- Voltage and current loops Data logger - records 4-20 mA current loops or DC voltage signals
- Thermocouple data logger for monitoring extreme temperatures
- Universal data logger for monitoring analog voltages or 0-20 mA currents

RFL100

Wireless humidity and temperature data logger for the Vaisala monitoring system ...

- Secure, long-range wireless connection
- Strong signal, low power consumption
- Measuring probe HMP115 in a plastic housing can be integrated or operated by cable
- The HMP110 probe in a stainless steel housing is suitable for extreme conditions and is used as a cable probe
- TMP115 temperature probe for the temperature range from -196 ° C ... + 90 ° C

RFL100 CO2

CO2 wireless data logger VaiNet RFL100 for monitoring incubators ...

- RFL100 CO2 data loggers use an external power supply with lithium battery backup (22 hours)
- GMP251 probes are characterized by a wide operating temperature range, high accuracy and superior stability
- Measurements are in SI units (NIST USA, MIKES Finland or equivalent) or ISO/IEC 17025 accredited calibration labs traceable

CAB100

Industrial control cabinets for data acquisition in clean rooms and industrial environments ...

- The delivery variants include differential pressure measurements and analogue inputs for a large number of measured variables.
- Analog inputs can be made intrinsically safe with a safety barrier or power isolator.
- PoE and/or an Ethernet multiport adapter are available as network options.
- The large control cabinets have an integrated power supply with 24 VDC/2.5 A.

7310/7510

Aerotrak Remote Particle Counter for Monitoring Cleanrooms ...

5 year guarantee

NEW

- Acquires up to 4 particle sizes simultaneously
- Size range 0.3 to 10 µm
- Flow rate 28.3 l / min
- Memory for 3000 recordings of samples
- Configuration on site or via web browser
- Stainless steel case

P34

Differential pressure transmitter with minimal External dimensions - ideal for installation in control cabinets ...

- Measuring ranges: 10/50/100/250/500 Pa, 1 / 2.5 / 5/10/20/50/100 kPa, freely scalable from 10 .. 100% within a measuring range
- Optionally with temperature analog input and internal stat. Pressure sensor for P- / T-compensated volume flow
- Optional with relay
- Volume flow configurable via k-factor, dPmax / Vmax or 20 individual values
- USB interface: via PC software (password-protected) scaling, characteristic curve shape and much more parameterizable

WXT530

Multisensor weather transmitter - weather data in real time ...

- Measures the 6 most important weather parameters such as air pressure, temperature, humidity, precipitation, wind speed and wind direction
- Analog sensors can be connected
- Compact and light
- Quick and easy to install
- Energy and cost efficient

Indigo500MIK

Mounting kit for meteorological applications ...

- Outdoor mounting kit for Indigo500 series transmitters
- Supports wall and pole mounting
- Delivery is pre-assembled according to the chosen options
- The optional radiation protection DTR502 prevents temperature measurement errors
- The optional weather protection DTS1 prevents the formation of a microclimate around the heated probe

Rain[e]

Weighing precipitation sensor with excellent accuracy...

- Self-draining monolithically manufactured precision seesaw
- Dual gravimetric precipitation sensor
- high resolution 0.001 mn/m^2
- Collection area 200 (400) cm^2
- All-metal body, weatherproof and durable
- Compact and robust design (weight only 2.5 kg)

PTU300

Combination transmitter for pressure, humidity and temperature for demanding applications ...

- Available with two sensors for air pressure measurement for additional security
- Serial RS232C interface with NMEA protocol for GPS applications
- Analog outputs, RS232 / 485, LAN
- Modbus protocol support (RTU / TCP)
- Graphic display and keyboard for convenient operation

HMP155

Humidity and temperature probe for demanding outdoor measurements ...

- Optional heated moisture probe and chemical sensor cleaning
- Plug-and-play principle
- USB interface for maintenance purposes
- Suitable for radiation protection housings and for Stevenson-WetterHütte
- Protection against water jets according to IP66

Fence-Line

Air quality monitoring with Fence-Line ...

- For measurements of volatile gases and gas leaks in industrial areas
- Can measure all relevant gas components such as NO, NO2, SO2, O3, BTX, HNO2, NO3, formaldehyde and NH3
- Non-contact DOAS measurement method
- High reliability at low costs
- MCERTS certificate - guarantees a calibration interval of one year

SM200

Dust sampler and suspended dust monitoring device ...

- Suitable for both automatic particulate matter measurement and for filter sample collection
- Optionally with sampling heads type PM10, PM2.5 or TSP for volume flows of 2.3 m^3 / h or 1.0 m^3 / h
- Data storage: 120 days (with 24-hour sampling)
- Aerosol concentrations from 0.001 to 150 mg/m^3

Environmental Dusttrak

Aerosol monitor in tamper-proof environmental protection housing ...

- Remote-controlled real-time data acquisition solution that is ready for use in less than an hour
- Early detection functions enable timely interception of sources of increased air pollution
- Simultaneous measurement according to size of separate mass fraction concentrations corresponding to the dust fractions PM 1, PM 2.5, respirable, PM 10 and total dust fraction
- Aerosol concentrations from 0.001 to 150 mg/m^3

DT80M/DT80G

Data logger DT80M with integrated modem and data logger DT80G for geotechnical applications ...

- DT80M with an integrated 2G / 3G modem
- DT80G support vibrating wire sensors such as Geokon, Slope Indicator, RST Instruments, ...
- Dual channel concept enable up to 10 isolated or 15 common analog inputs
- USB memory for easy data and program transfer
- Web interface, FTP server
- Can be expanded to up to 300 analog inputs

BlueSky

Air quality meter ...

- Accurate Data - Factory calibrated TSI PM sensor with the ability to program a custom calibration factor
- Real-time map from live data
- Unique laser-based scattered light particle sensors
- Developed for outdoor use

AM520/AM520I

Personal carried aerosol monitor SidePak ...

- Real-time measurement of mass concentrations and data logging for on-site data analysis
- Aerosol mass concentration measurements for PM10, respirable, PM2.5, PM1 and 0.8 μm DPM
- SidePak AM520I is IECEx and ATEX certified for use in explosive environments
- User-selectable alarm levels for alarming the employee
- Powerful battery and OLED color display

PortaCount 8040/8048

PortaCount 8040-8048 Respirator Fit Tester...

- Compatible with new modified CNC protocols
- Real-time FitCheck Mode ™ shows mask fitting in real time to improve mask selection and training
- Animated fit test steps guide the user through the correct movements for each exercise
- OSHA, CSA, HSE, INRS, and ANSI compliant for all close-fitting breathing apparatus, including 95, 99, 100, FFP1, FFP2, and FFP3 series respirators with filters

HM70

Portable humidity and temperature measuring device for demanding sample measurements ...

- Designed for sample measurements and on-site calibration
- Graphical display of measured value trends
- Three probe designs with temperature measuring ranges between –70 and +180 ° C
- Simultaneous connection of 2 probes - also dew point and CO2 probes - possible
- Display of derived moisture values

HM40

Portable humidity and temperature measuring devices for quick checks and random measurements ...

- HM41 humidity and temperature measuring device - compact standard model
- HM42 humidity and temperature measuring device with 4 mm thin cable probe
- HM45 humidity and temperature measuring device with standard cable probe
- HM46 humidity and temperature measuring device with long stainless steel cable probe

MM70

Portable moisture meter for sample measurements in oil ...

- Measurement independent of the type, age and temperature of the oil
- Use via ball valve directly in the process without draining oil
- High pressure and temperature resistance
- Compatible with stationary Vaisala oil moisture sensors
- Multi-probe operation; Probes for dew point and CO2 can also be connected
- Robust and reliable design

DM70

Portable dew point meter for spot checks and for on-site calibrations ...

- High response speed thanks to the sensor cleaning function
- Data storage and transfer to a PC with MI70 Link software
- Condensation-insensitive sensor
- Multi-probe operation; Relative humidity and carbon dioxide probes can also be connected
- Three probe types for dew point measurements in the range -60 ... + 60 ° C

Flowtherm NT.2/EX

Flow handheld measuring device with a wide range of applications, even in EX areas ...

- Measurements with up to three sensors can be displayed simultaneously
- Data logger enables the storage of up to 40,000 measurements with date and time
- Up to 100 different profiles for users or measuring points can be stored
- USB interface - simply transfer logged data to the PC and configure the device

UF801/Minisonic II

Mobile ultrasonic flow meter for liquids ...

- Highly visible OLED display
- Accurate, constant and reliable results, even under extreme measuring conditions
- For all types of pipes, even very worn pipes with or without insulation
- For all types of liquids (water, chemical products, mineral oil products, ...)

Portable Air Velocity Meter 2445

Portable flow meter for the high temperature range ...

- Made for very high temperatures up to 500 ° C (such as coal-fired power plants and air ducts)
- Available in five fixed lengths
- Robust, welded construction - ideal for dirty and corrosive environments
- All-metal display module, charger, carrying case and accessories

GM70

Portable carbon dioxide meter for random measurements ...

- Choice of diffusion or pump aspiration
- Numerical and graphic representation of all measured values
- Functions for data acquisition and transfer to a PC using the MI70 Link program
- Easy recalibration through interchangeable probes
- Suitable for functional testing of stationary CO2 sensors

SQ16 / Plus / Pro

Powerful data logger for all applications...

- Easy to use, simple setup and intuitive to use
- The long battery life ensures long-lasting operation and mobility
- Rugged body and rugged design, ideal for environmental applications
- Bluetooth and USB connectivity for multiple connection options

EMA200

Portable digital manometer with min / max value memory ...

- For measuring differential pressure and flow velocities
- High accuracy and long-term stability
- Low zero drift, hysteresis and temperature dependence
- 4 measuring ranges available
- Scalable analog output
- Ideal for customer service and maintenance work, e.g. B. on heating, ventilation and air conditioning systems

Accubalance 8380

Volume flow hood for measuring the air volume on diffusers and grilles ...

- High flexibility due to removable micromanometer
- Optional probes for other measurement applications
- Stable and trouble-free operation
- Light and ergonomic measuring hood
- Contributes to the creation of a healthy and energy efficient environment
- Automatic recording and display of supply and exhaust air flows saves time at work

VelociCalc 9600

Portable multifunction climate meter...

- Large, high-resolution color display
- Intuitive menu structure for easy operation and facility
- Input for a K-alloy thermocouple
- User-customizable softkeys for quick access to common functions
- Calculation of the percentage of outside air with IAQ probe

Dussttrak 8533EP

Dusttrak DRX aerosol monitor for real-time dust monitoring ...

- Stationary battery-operated laser photometer with external pump, scattered light measurement and data logging for real-time measurements of aerosol masses
- No other device can measure mass and particle size at the same time
- Energy saving, durable external pump
- Automatic zero point reset
- Aerosol concentration range 0.001 to 150 mg / m³

Aerotrak 9310/9510

Portable particle counter for monitoring particle contamination ...

- Size range 0.3 (0.5) to 25 µm
- Can be used independently as a portable particle counter or integrated in system monitoring systems
- Display of up to three environmental parameters
- With the integrated 5.7-inch color touchscreen
- Can store up to 10,000 sample records
- Reports for ISO 14644-1, EU GMP guidelines Appendix 1 and FS209E

Aerotrak 9303/9306

Manual particle counter for monitoring particle contamination ...

- Size range 0.3 to 25 µm
- Meets all requirements of ISO 21501-4
- Built-in handle for one-handed operation
- External reporting for ISO 14644-1, EU GMP and FS209E via TrakPro ™ Lite Secure
- Data overview directly on the display

Air Pro AP500/AP800

Portable air speed meter AP500 and micromanometer AP800 ...

- AP500 includes a barometric pressure sensor to correct the air density
- AP800 includes a differential pressure sensor to measure differential pressure and static pressure, a barometric pressure sensor to correct air density
- Integrated display, buttons and a lithium-ion battery
- Application software for display, logging, real-time measurement and calculations on portable devices

Pyros

Compact metal block temperature calibrators ...

- Temperature range: -24 ° C to + 650 ° C
- Serves as a temperature source and reference device in one
- For testing and calibration of temperature measuring devices of all kinds
- Compact and light
- Different block inserts with different holes available for test specimens
- Particularly proven on board ships (marine industry)

Quartz

Metal block temperature calibrators...

- Temperature range: -30 ° C to + 150 ° C
- Serves as a temperature source and reference device in one
- For testing and calibration of temperature measuring devices of all kinds
- Compact and light
- Different block inserts with different holes available for test specimens
- Retrofitting of „black body" for the calibration of non-contact infrared thermometers possible

Pulsar

Metal Block Temperature Calibrator ...

- Temperature range +20 ... + 550 ° C
- Immersion depth for test objects 275 mm
- Ramp function
- Thermostat tests
- Computer controlled calibrations via RS232 interface
- Different block inserts with different holes available for test specimens

Solar

Metal Block Temperature Calibrator ...

- Temperature range +200 ... + 1100 ° C
- Ramp function
- Thermostat tests
- Computer controlled calibrations via RS232 interface
- Different block inserts with different holes available for test specimens

Fluid

Temperature calibration bath ...

- Temperature range: -8 ° C to + 250 ° C
- Ideal for the calibration of glass thermometers and laboratory thermometers
- Compact and light
- Computer controlled calibrations via RS232 interface
- Option: conversion to metal block temperature calibrator

HMK15

Salt bath calibrator for laboratory and on-site calibrations ...

- In addition to laboratory use, it is also suitable for calibration purposes directly at the measuring location
- The HMK15 can be easily transported to the respective place of use thanks to the special vessel lid
- Based on the principle of saturated salt solutions
- Certified ready salt packs available
- No power supply required
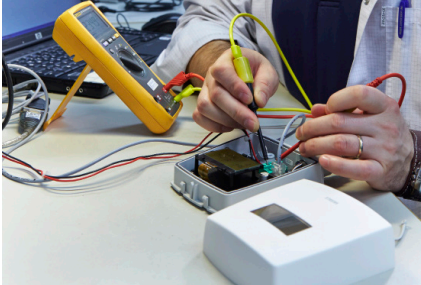- Fast temperature compensation

KAL100/200/84

Pressure calibration devices with integrated pressure generation ...

- Pressure gauges for low pressures from 10 Pa can be easily checked and calibrated
- High accuracy and long-term stability thanks to automatic zero adjustment
- Simple menu navigation for switching units, setting calibration points and specifying the measuring span
- Generation of positive and negative differential pressures
- DAkkS calibration certificate
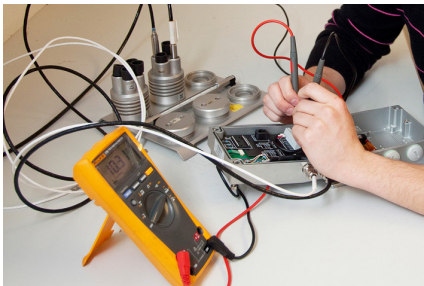
REPAIR- & CALIBRATIONSSERVICE

Repair

We offer you a quick repair service including all necessary spare parts, an accredited certificate or a factory calibration cerificate with a service report.

The repair includes:

- Workload
- Spare parts required
- Calibration certificate
- Service report

Calibration

Regular calibration ensures that your measuring devices continously provide accurate and high-quality data. Calibrations caried out in our service center are treaceable and corresbond to ISO 9001.

The calibration includes:

- Calibration and certificate before adjustment
- Adjustment according to specification
- Calibration and certificate after adjustment
- Exchange of wear parts

NOTES