



**GREISINGER**

**HONSBERG**

*Martens*

**IMTRON**

*DeltaGHM*

# Professional Instruments

Made in Germany

[www.ghm-messtechnik.de](http://www.ghm-messtechnik.de)



## GHM Group



**GREISINGER**

**HONSBERG**

**Martens**

**IMTRON**

**DeltaOHM**

Following the merger of the companies GREISINGER electronic, Honsberg Instruments and Martens Elektronik in 2009, GHM Messtechnik was established, thus providing enhanced competence for all aspects of measurement and industrial electronics. In March 2010, Imtron Messtechnik was integrated as fourth company into the GHM group, in July 2013 these companies were merged to form GHM Messtechnik. With the acquisition of Delta Ohm from the region of Padua the wide offering of GHM has been expanded with devices for environmental measurement technology.

With approx. 250 employees and more than 30 developers at the six locations Erolzheim, Regenstauf, Remscheid, Barsbüttel, Owingen, Kassel and Padua we are offering an extensive product portfolio for the requirements of the following segments:

- Industrial Electronics
- Industrial Electronics
- Control Technology
- Process Engineering
- Industrial Measurement
- Test Bench Measurement
- Metrology

Our sales network with several sales engineers covering whole Germany and Austria, provides excellent technical support. Furthermore there is a world-wide presence with GHM sales subsidiaries in the Czech Republic, Denmark, South Africa and the Netherlands, as well as sales representatives and representations all over Europe, North and South America, Asia, and Africa.

### Quality „Made in Germany“

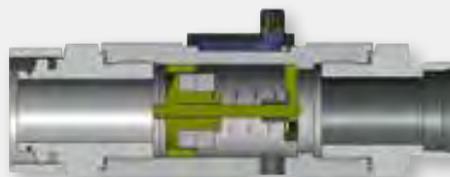
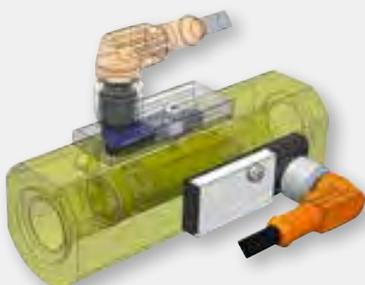
The GHM Messtechnik companies develop and manufacture all devices and systems exclusively in Germany. With the merger, the product portfolio increased significantly. Well-known corporations appreciate our quality „Made in Germany“.



**Made in Germany**

### Our Ambition - Your Advantage

As a specialist and full-range supplier of measurement technology we develop customized and market-driven solutions for you, matching the high demands of the industry.



*State-of-the-art 3D CAD systems for development of inhouse and customer-specific products.*

## Flexibility and Innovation

These two terms belong together and are the driving force behind the success of GHM Messtechnik.

We find solutions for the requirements of our customers in addition to the substantial standard program.

## Just ask us ...



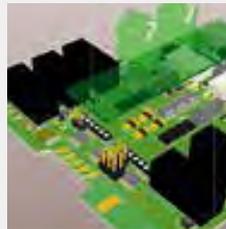
Shielded EMC chambers for all necessary testing



Pressure test up to 1000 bar



Test bench for IP protection rating



State-of-the-art Altium 3D layout

## Competence in Measurement Technology

Our products meet all special standards:

- DIN EN ISO 9001 standard for quality management systems
- Safety Integrity Level (SIL2)
- DIN EN 14597
- Ex-Approval according to ATEX
- Classification of shipping GL (Germanischer Lloyd)
- EC-Certificate of conformity
- etc.



**SIL 2**



# Portfolio of the GHM Group

			<b>GREISINGER</b>	<b>HONSBERG</b>	<b>Martens</b>	<b>IMTRON</b>	<b>DeltaOHM</b>
	<b>Laboratory Measurement (Handheld Instruments)</b>	Temperature Humidity Pressure Conductivity pH / ORP Sensors	●				●
	<b>Industrial Electronics / Control Technology</b>	Switching relays Isolating converters Measurement transmitters Displays / Controller Monitoring relays Data logger / EASYBus / deltaBus	●		●	●	●
	<b>Process Engineering</b>	Temperature Flow Level Pressure Conductivity pH	●	●	●		●
	<b>Industrial Measurement</b>	Flow Level Temperature Pressure Humidity Filtration	●	●	●		●
	<b>Test Bench Measurement</b>					●	
	<b>Metrology</b>						●
	<b>Customizing</b>		●	●	●	●	●

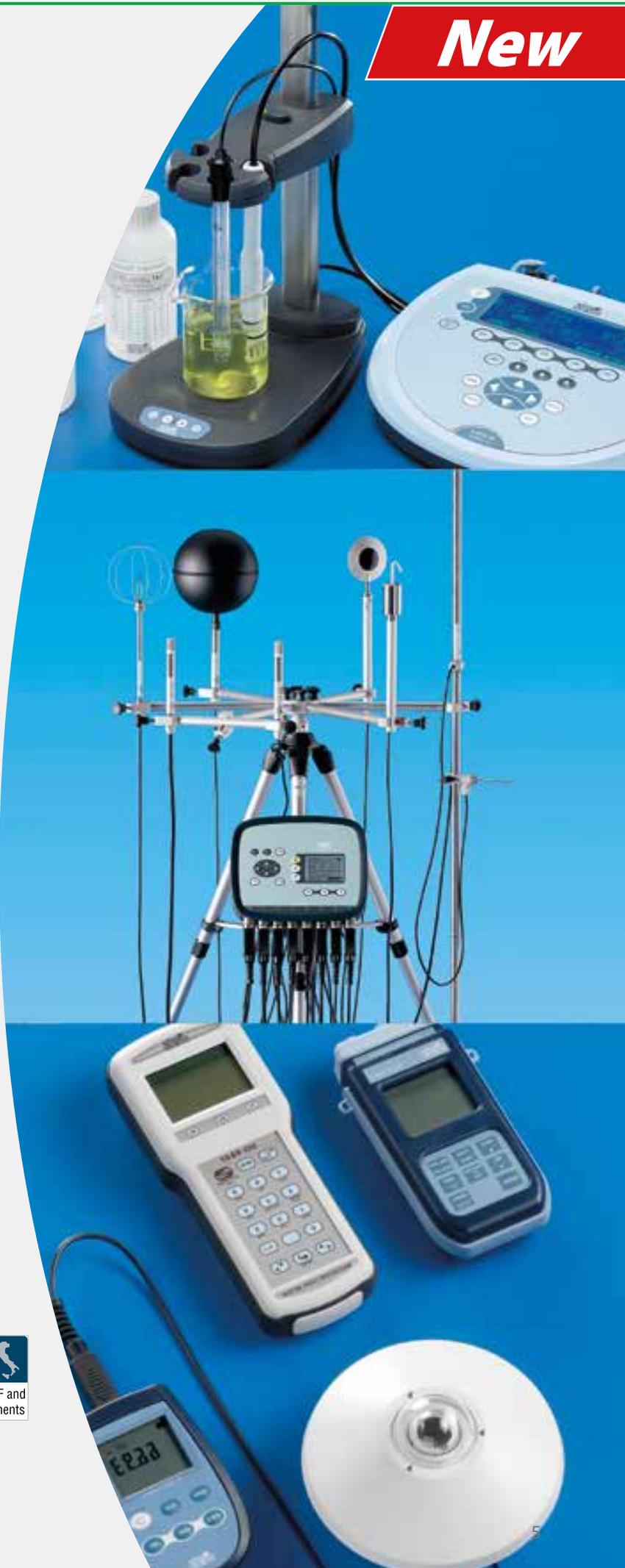
# Delta OHM

**New**



With the acquisition of Delta Ohm from the region of Padua / Venice, the wide offering of GHM has been expanded with devices for environmental measurement technology. This includes complete weather stations and individual measuring devices for the detection and evaluation of light, acoustics and vibration. Devices for the measurement of air quality, air speed and multifunctional measuring devices – data loggers for WBGT, microclimate analysis and environmental and water analysis are now also offered. GHM can now serve and cover the requirements a completely new group of customers. Delta Ohm was founded in 1978. With its staff of 50 employees, it has developed an outstanding international reputation in the area of development and production of electronic measuring devices. Delta Ohm currently exports to over 40 countries and thereby offers an international platform for the other five companies of the GHM Group, which already enjoyed a nearly worldwide presence with its own subsidiaries in the Czech Republic, Denmark and the Netherlands, as well as distribution partners through Europe, in North and South America, Asia and Africa. The Accredia Lat N°. 124 calibration laboratories of Delta Ohm are accredited for measurements of the following physical variables:

- Temperature
- Humidity
- Pressure
- Air speed
- Photometry / radiometry
- Acoustics



Ask for our brochure  
„Instruments for food-,  
beverage- and pharma  
industries“.



## Process measurement technology for hygienic areas

### Demands on the measuring technology

The basis of hygienic process control and therefore the demands on the measuring technology is essentially the fulfillment of the following criteria:

- **Hygienic Design for uncritical application**
- **CIP- / SIP cleanable**
- **Sensors made of stainless steel**
- **FDA conform materials**
- **EHEDG certification**
- **3A-approval**
- **Protection class IP67 / IP69K**

### Process connections



The process adaption demands choosing a hygienic process connection conforming to standards according to the desired application at tanks or in tubes. Diameter, volume and design define size and type of the connection, and medium, temperature and pressure state possible measuring principle. We offer hygienic easy-to-clean standard and special process connections for each measuring principle.

### Temperature (configurable via GTL programming tool)

The temperature sensor series of the GHM group includes more than 30 different basic design types. The versatile probes cover a huge range of applications in food, beverage and pharmaceutical industry.

#### Advantages

- Temperature range -40...+200 °C
- Optional head transmitter
- Fast response time due to reducing measuring tip
- Several adapters and weld-in sleeves
- Several evaluations electronics (ATEX, Profibus, SIL 2)
- Pipe sensors for temperature monitoring of cleaning and sterilization processes and for pasteurization and UHT

### Level measurement

#### Hydrostatic level measurement

The level measurement is traced back to a measurement of the hydrostatic pressure. This pressure is caused by the liquid column above the sensor and is directly proportional to the filling level.

#### Potentiometric level measurement (single rod probe)

The level of free-flowing media is measured by a single rod probe. Exploiting the electric induction the reference pole has been moved into the probe, thus no electric connection at the tank is necessary any more.



## Limit level measurement (configurable via GHMware)

### • Capacitive measuring principle

Several years of experience with different kinds of level sensors and limit level switches finally resulted in a new measuring principle.

Striking advantages of this patented charge transfer measuring principle are the response time, setting of switching points to the digit and the possibility of phase variation of media (e.g. milk and water).

### • Calorimetric measuring principle

The limit level switch can detect liquids irrespective of conductivity or coloring. Additionally not too coarse granulate or mud-like products can be detected.

### • Conductive measuring principle

This is a very cost-effective and flexible method for limit level detection. The sensor can be designed as single-rod as well as multi-rod probe. The sensor rods can subsequently be shortened or bent to fit them to the installation situation.



## Flow rate

### • Calorimetric flow rate measurement

The electronic flow rate monitoring based on the calorimetric principle has no mechanically moving parts (e.g. no turbine wheel or floating element). Therefore the sensor can be used for media containing solids.

**Application:** Monitoring and measuring of (even very low) flow rates, leakage control.

### • Magnetic-inductive flow rate measurement

The magnetic-inductive principle uses the effect of conducting liquids inducing a voltage proportional to the flow velocity in a solenoid. Advantages of this measuring principle are that no moving parts are necessary and the pressure loss due to the measurement is low.

Depending on the demands on design and tube standard the sensors are adaptable by several process connections.



## Analysis measurement technology (configurable via GHMware)

### • Capacitive DC measuring device

The DC measuring device provides measuring and monitoring of the dielectric constant (DC) of products. This allows monitoring of e.g. oil-water emulsion. A freely scalable current output is integrated for outputting the measuring value. The current status of the device and the measuring value can every time be read on the LC-display.

#### **Applications:**

- Media separation / monitoring of emulsions
- Continuous process control / product quality monitoring via DC



Please ask for our brochure  
 „ATEX explosion protection -  
 certainly safe“.



## ATEX explosion protection

### EU-Directive / CE mark

The explosion protection is regulated by directives and laws within the European Union. Electric devices have to fulfill corresponding regulations in the EU. If the requirements are fulfilled, the manufacturer can label the device with the CE mark. In this context any misuse is an offense.

According to directive 94/9/EG (ATEX directive) this marking is supplemented for the explosion protection of certain device classes – if needed – with the number of the notified body that performed the acceptance of the quality management.

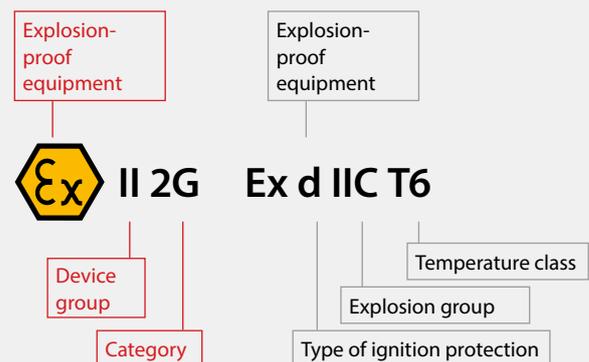
In contrast to non-EU laws, the ATEX directive also applies to non-electric (e.g. pneumatic actuators). Corresponding systems and facilities are classified “requiring inspection” and only devices approved for that purpose are allowed to be used. Furthermore start-up, changing and routine safety inspections have to be certified by state-approved institutions or corporations. The legal framework are the EU directives, which are bindingly enacted for all EU member countries.

### Explosions

Generally, there have to be three factors fulfilled, that a explosion can take place at atmospheric air:

- combustible
- oxygen (air)
- ignition source

### Labeling



## Brief overview: products with Ex

### **B** Industrial sensor and measuring technology



#### **B1. Temperature**

GTF 101-Ex  
GTF 102-Ex  
GTF 103-Ex  
TC293  
TR293  
TC296



#### **B2. Flow rate**

A-V1  
A-V2  
A-V3  
A-H1.1  
A-H1.2  
A-H2.1  
A-U1-1



#### **B3. Level measurement**

A-U1-2  
IL10



#### **B6. Pressure**

IS20  
IS21



#### **B7. Weighting technology**

PC22  
SB8  
RC3  
DMS50Ex

### **E** Industrial electronics

#### **E1. Displays**



GIA 0420 N-ex  
GIA 010 N-ex  
GIA 0420..-ex  
GIA 0420 WK..-ex  
GIA 010 VO..-ex  
GIA 010 WK..-ex



#### **E2. Transmitters**

PMT50Ex-1



#### **E3. Isolation amplifiers**

TV500Ex, ST500Ex  
TV501Ex  
TS500-Ex



#### **E4. Safety and monitoring devices**

MR50Ex  
STL50Ex

### **D** Laboratory and hand-held measuring devices



GMSD-ex  
MSD-ex  
GMH 3111-ex  
GMH 3151-ex  
GMH 3156-ex  
GMH 3161 - ... - ex  
GMH 3181 - ... - ex



# GREISINGER



The first products of GREISINGER electronic GmbH 30 years ago were premium special sensors, which hit the nerve of the market and founded the success of the company.

Since then the location Greisinger has developed and manufactured its handheld instruments, transmitters, displays and corresponding sensors in Regenstauf, Bavaria (near Regensburg).

The use of state-of-the-art machinery and instrumentation, and the highly efficient and productive manufacturing process are the the base of the high product quality "Made in Germany" at competitive prices.



## Handheld Instruments

### GHM silverline

- pH / ORP (SL-pH)
- Temperature (SL-Pt eco)
- Pressure (SL-P)
- Conductivity (SL-C)

### Measuring Sets

- Each GHM silverline set includes a complete measuring set
- Water-proof handheld instrument
  - High-quality case
  - Flash drive with software and manual
  - USB adapter and cable with connection for analog output
  - ratis manufacturer's calibration after 1 year with automatic reminding from our calibration laboratory
  - Accessories like e.g. water-proof pH electrode and buffer solutions or water-proof temperature probe (depending on set type)



i.e.: SL-pH

### Line 5000 Line 2000

- pH / ORP
- Temperature
- Pressure
- Conductivity

### Waterproof – for highest Demands

With modern design, Greisinger presents the newest handheld instruments with robust and waterproof housing and plug connections / probes. According to model the handheld instruments have cyclic value memory with up to 10000 data set, manual or automatic logger function, an analog output and the large illuminated display.



### Line 3000 Line COMPACT

- Temperature
- Conductivity
- pH / ORP
- Pressure
- Humidity
- Material moisture
- Flow
- Oxygen
- Carbon monoxide

### Quality for Professionals Switch on and instantly Measure!

In the broad range of GREISINGER handheld instruments you will find the right device for every measurement task. GREISINGER handheld instruments series Line 3000 are bus-capable, one- or multi-channel devices, have an interface and are optionally available as data logger.

Handheld instruments series COMPACT Line can be used wherever fast and precise measured values at economical prices play an important role.



# GREISINGER



## Data Logger / EASYBus

- Temperature
- Humidity
- Standard signal
- Air pressure
- Pulse
- Status



## Displays / Controller



- Dimensions 48 x 96 mm  
24 x 48 mm
- Universal Inputs
  - Standard signal
  - Resistance
  - Frequency
  - Speed
  - Counter
  - Difference
- Relay switching outputs
- Self diagnosis
- Programmable characteristic
- Transmitter power supply, isolated
- Serial Interface
- Min/Max value memory



### Advantages of EASYBus

- Minimum amount of installation and planning
- Display and monitoring system for several measurement points
- Unrivalled cost/performance ratio
- High flexibility: Subsequent modifications and extensions possible at any time

### Applications of EASYBus

- Cooling chambers (temperature monitoring)
- Heating / air conditioning / ventilation (temperature, relative humidity, CO<sub>2</sub>-monitoring)
- Utility rooms / computer rooms / laboratories (temperature, relative humidity)
- Manufacturing rooms (temperature, relative humidity, CO<sub>2</sub>)

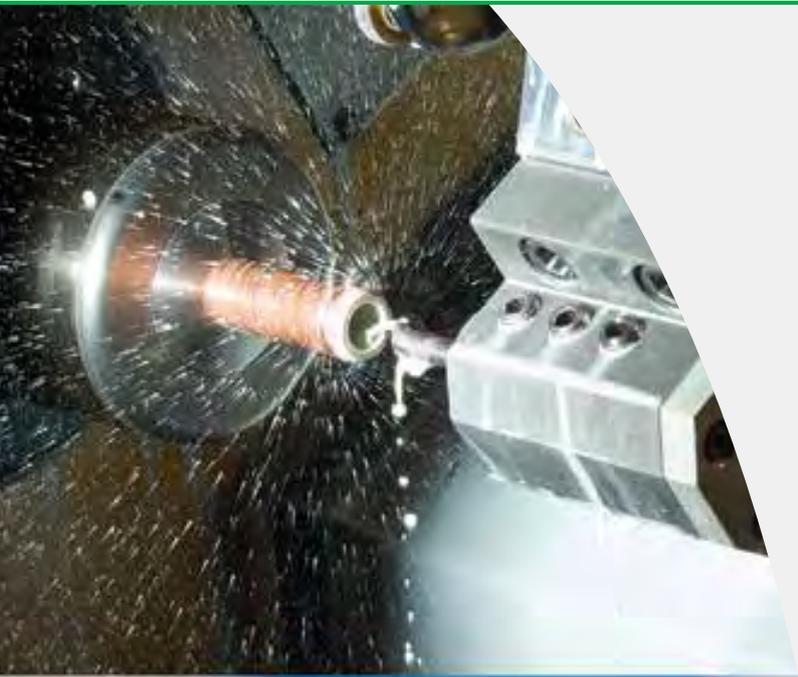


## Probes / Signal Converters

- Temperature
- Humidity
- Pressure
- Conductivity
- ORP
- pH
- O<sub>2</sub>
- CO
- CO<sub>2</sub>
- Flow



- Injection probe
- Immersion probe
- Surface probe
- Air / gas probe
- Asphalt probe
- Clip-on probe

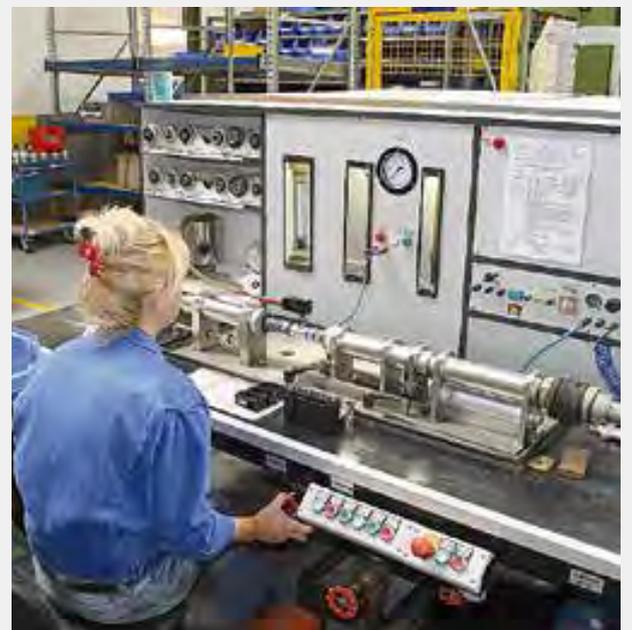


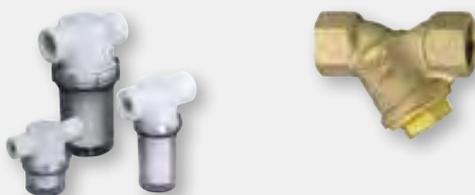
# HONSBERG



For many years Honsberg has held a significant position in control and measurement technology for flow, level, temperature, pressure, and filtration instrumentation. Our activities cover research and development, manufacturing, sales, and service.

- Honsberg was founded in 1963 as family-owned enterprise.
- Honsberg is a medium-sized company with its production facility in Remscheid.
- Honsberg products are installed in waste water treatment, diesel engines, compressors, construction machines, as well as in machine tools, paper, printing or refrigerating machines.





## Level

Inspection glasses for vertical mounting in various lengths to monitor fluid levels and visual appearance.

Float gauges for vertical mounting in various lengths and designs monitoring fill levels with one or more switch-points.

Float gauges for horizontal mounting monitoring fill levels with one contact or with capacitive measures. Ultrasonic method for granules and ductile materials avoiding direct contact.

## Temperature

Bi-metal monitor for temperature control in strong design. External adjustable temperature switch. Platinum temperature meter with high accuracy. Can be combined with transmitters FLEX-T (switch, analog, or frequency output) or OMNI-T (switch, analog, or frequency output and LED display).

Differential temperature meter consisting of two platinum probes and 4..20 mA signal output.

Infrared sensor for contactless measuring and monitoring of temperatures (OMNI-IR).

## Pressure

Membrane pressure monitor with settable switching point in stainless steel or brass housing. Pressure meter with thick-film sensor and protected pressure cell, current output 4..20 mA. Stainless steel meter with flush mount membrane in 2-wire technology for combination with transmitters FLEX-P (switch, analog, or frequency output) or OMNI-P (switch, analog, or frequency output with LED display).

Ceramic pressure cell in stainless steel housing in 2-wire technology, to be combined with transmitters FLEX-P (switch, analog, or frequency output) or OMNI-P (switch, analog, or frequency output with LED display).

All pressure sensors are available also with wireless transmitter.

## Filtration

Magnetic filter with microstrainer and magnet plug in solid construction, micro mesh 5..300 µm with clear-sight lid.

# HONSBERG



## Flow



## Indication

- Displays to be combined with many devices
- Mechanical scales (do not need power supply)
- Electronic displays with back lighting



## Switching

- Reed switch
- Micro switch
- Hall-effect switch



- Piston valve design
- Piston in line design
- Float

- Paddle
- Dynamic flap

- Gear wheel
- Bolt



Add-on systems with switches, transmitters, mechanical scales and electronic displays.

## Measuring

- With transmitter
- Programmable switch-points
- Analog output: current, voltage, and/or frequency



- Calorimetric
- Magnetic-Inductive

- Vortex
- Sight glass

- Flap
- Sphere

- Flow limiter

# Martens



Martens Elektronik GmbH, founded in 1988, has more than 20 years experience in the field of measuring, control, and process measurement. Our motto is "Made in Germany" with development and production in Barsbüttel near Hamburg.

The product portfolio consists of digital displays, signal converters, sensors, and analysis devices. Nearly every physical or electrical quantity can be measured.

We build customer-specific devices for special requirements beyond the standard.

The vast range of products and measured quantities is reflected by our customer base, spanning from building automation via plant engineering to the pharmaceutical industry.



## Process and Analysis Measurement



### Level

- Capacitive level measurement
- Hydrostatic level measurement

We offer technologies for level metering depending on applications and specifications, from sensors for hydrostatic pressure to capacitive sensors for viscous or adhesive media..



### Flow

- Interpretation of standard flow sensors

All commercial flow sensors can be connected to our field meters and signal converters for flow and frequency measurement. Values are displayed visually or converted into a standard signal.



### Conductivity



- Conductive
- Measurement of all ranges down to ultrapure water

Measurement with conductive 2- and 4-pole sensors is commonly used. The variety of plugs allows measuring under nearly all conditions from water to aggressive acids.



### pH / ORP

- Measurement with standard electrodes

Measuring one of the most important process quantities is a piece of cake with our converters and displays. Tasks like connecting, configuring, as well as calibration are intuitional matters.



## Industrial Electronics



- Rotation
- Pressure
- Flow
- Cycle time
- Conductivity
- Counter
- pH value
- Productivity
- Temperature
- Level
- Standard signals

## Displays and Fieldmeters

Visualization is the most important factor monitoring and displaying processes and application flows for the user.

Our range of displays for front panel or direct mounting offers solutions for nearly all measurement quantities and physical units.

A common feature of the displays is easy configuration via front panel buttons or DIP switches plus manifold options with relay and analog outputs.

Use under harsh conditions is feasible due to environmental class IP65. If you have not found the appropriate display for your application yet, please do not hesitate to ask for a customer-specific solution.

## Industrial Electronics



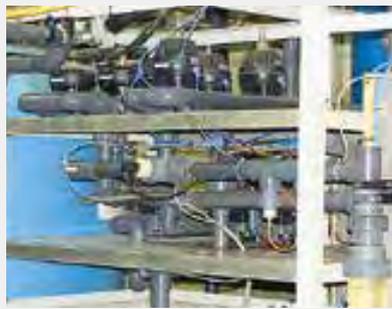
- Signal conditioning
- Linearization
- Characteristics transformation
- Voltage
- Current
- Temperature
- Resistance
- Frequency
- Power

## Transmitters

Signals from Pt100, thermocouples, strain gauges, or resistors cannot always be processed directly. Otherwise the signal follows a function needing processing as a linearized standard signal.

For these and other signals and applications we offer transmitters with DIN-Rail mounting. Housings are 22.5 or 50 mm wide depending on the application. Configuration can be done with DIP switches, Teach-In, or via keypad and display.

In most cases the transmitter can be enhanced with alarm contacts for a safe shutdown in case of emergency.



## Industrial Electronics

## Isolating Converters



- Galvanic isolation
- Power feed isolation
- Switching repeater isolation
- Transmitter isolation

Independent of the size of an installation, many failures and problems relate back to noisy signals or electrical potential mismatch.

The solution is the galvanic isolation of the signal. Our isolating converters are available as active or passive version with 1, 2, or 3 channels for DIN-Rail mounting.

With a universal design nearly all devices only isolate signals, but also convert signals e.g. from 4..20 mA to 0..10 V.

## Industrial Electronics

## Switching and Monitoring Devices



SIL 2



- Threshold switch
- Isolation guard
- Power monitoring
- Emergency relay
- Safety temperature limiter

Our switching and monitoring devices ensure the safe operation of an installation. Starting with a simple threshold switch, the product range also covers isolation guards and safety temperature limiters with SIL2 class according to actual DIN EN 14597 standard.

Monitoring is also essential for the Ex area. Many of our devices allow connection of signals from this zone.

The devices are freely configurable or programmable with a free choice of functionality.



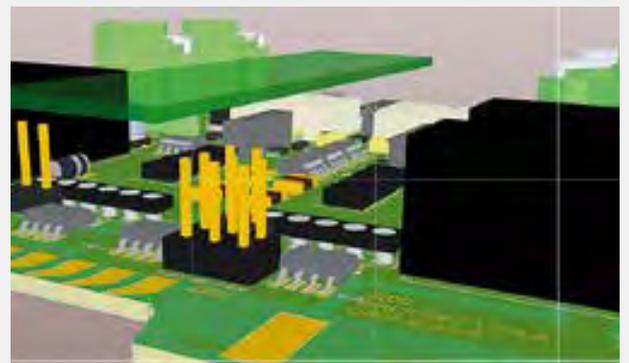
# IMTRON



IMTRON Messtechnik GmbH was founded April 1984 as an engineering office by Werner Heinrich. Since then it became a recognized supplier of measurement components and systems for industrial applications in development, manufacturing, and testing.

Our products are widely used by companies like ABB, Astrium, Daimler, ESA, Schaeffler Group, Tognum, VW Group, ZF, and many more. Applications are in the processing and acquisition of physical parameters like pressure, temperature, distance, angle, current, voltage, torque, etc.

Hardware and software is used in stationary automotive and machine manufacturing test beds, for energy monitoring in wind and solar parks, as well as mobile for car, truck and aircraft testing.



## Signal Conditioning and Data Acquisition Systems

### DASIM

- Extremely Universal
- Isolated Inputs
- 1 DSP per Channel
- 2 Channels per Amplifier
- 40 kHz Sample Rate
- Ethernet, CAN
- Analog Outputs
- GPS, Video Connection
- Parameter setting software DaSoft
- Acquisition software DAQSoft
- Drivers for DASyLab, LabVIEW, DIAdem

The most universal system for industrial data acquisition.

With 1 DSP per channel, the amplifiers of the proven DASIM measurement system offer an outstanding performance with minimum space requirements.

**The 2-channel Universal amplifier is designed for a vast number of sensors.**

Each of the 2 amplifier channels can be set independently and without compromise to any foreseen sensor by our parameter setting software DaSoft.

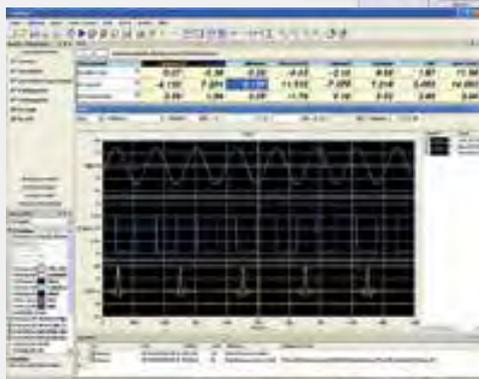
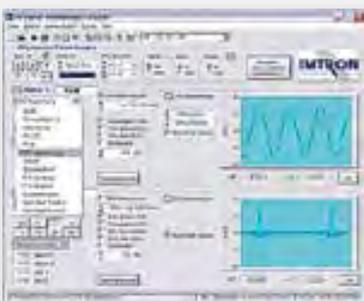
Sensor parameters can be also directly imported out of a sensor data base.

Each measurement channel is isolated and provides adequate power supply for the different types of sensors.

The sample rate per channel is 20 or 40 kS/s. All channels are synchronous.

There are 2 precise analog output signals available per channel. In parallel the digitised signals from the internal high-speed bus are output via an Ethernet and CAN interface.

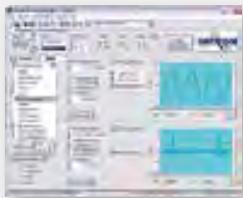
Measurement data are buffered in a FIFO. Parameter setting is done via the Ethernet or an RS232 interface.



# IMTRON



## SIQUAD



### Particularly Cost-Effective

High-end universal and modular computer controlled data acquisition system.

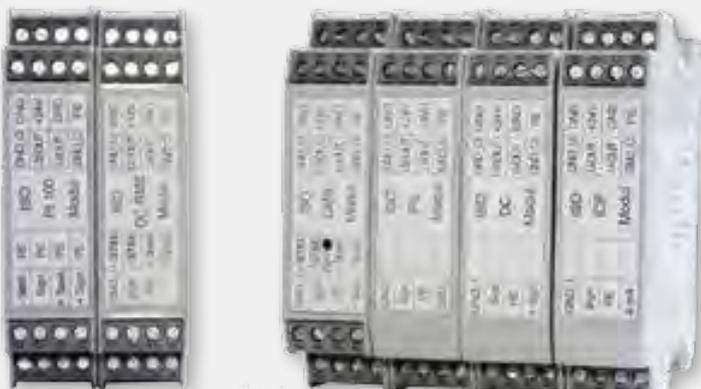
4-channel universal SIQUAD amplifier for a huge number of sensors. 24 bit AD conversion and up to 20 kS/s sample rate.

The modular amplifiers are designed for strain gauge, DC signals, temperature, ICP®, and frequency sensors. Units for analog out and Digital-IO are also available.

Isolated inputs, analog and digital signal output. Ethernet and CAN interface.

All channels are synchronous.

## TSA-Modules



### Isolated and with Filters

DIN-Rail modules for isolated noiseless signal conversion, conditioning and combining.

Inputs for norm signals as well as strain gauge bridges, DC signals, potentiometers, temperature, ICP® sensors, pulse generators. Outputs as norm signals for current and voltage.

Plug-in filter modules 4<sup>th</sup> (8<sup>th</sup>) order for interference suppression.



## Universal, Stand-alone and Compact Size

### Universal, Stand-alone and Compact Size

Individual universal and modular amplifiers with 1, 2, 4, 6, and 16 channels for stand-alone data acquisition. Isolated inputs. Digital signal output via CAN.

Various types of chassis.



### Decentral and Stand-alone

Individual modular amplifiers in a miniature system for decentralised data acquisition. Digital signal output via Ethernet and CAN interface.

Various types of chassis.



## Calibration and Testing

Calibration devices for strain gauge amplifiers with manual or IEEE488 operation.

Bridge resistances 120, 350, and 1000 Ohms. Sensitivities from 0.1 to 50 resp. 250 mV/V in 10 resp. 20 steps. Accuracy  $\pm 0.02\%$ .

Test standard for physically correct simulation of strain gauge bridges, potentiometers, thermocouples, RTDs, current, voltage, and tachometer generators.

The microprocessor used allows direct entry of sensor values as physical quantities. Calibration and nominal values are accounted for as well.



# Sales Germany



## Wolfgang Huckenbeck

Direction sales Germany

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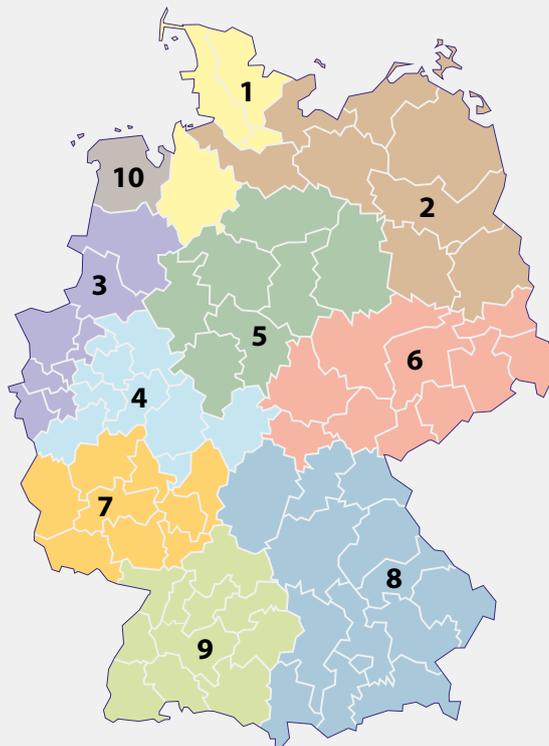
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40000 - 41999  
45000 - 50999  
52000 - 52999

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**Language:** German, English, Italian, Czech



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**Language:** German, English

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Estonia  
Finland  
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United Kingdom  
Ireland

Italy  
Croatia  
Lithuania  
Moldova  
Netherlands  
Norway  
Austria  
Poland  
Portugal  
Romania  
Russia

Sweden  
Switzerland  
Serbia  
Slovakia  
Slovenia  
Spain  
Czech Republic  
Turkey  
Hungary  
Ukraine  
Belarus

**Worldwide:**

Egypt  
Australia  
Brazil  
Chile  
China  
India  
Israel  
Japan  
Malaysia  
Morocco  
Oman

Philippines  
Singapore  
South Africa  
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Taiwan  
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# Product information ring binder



- B** Industrial sensor and measuring technology
- C** Process technology "Hygienic Design"
- D** Laboratory measurement
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