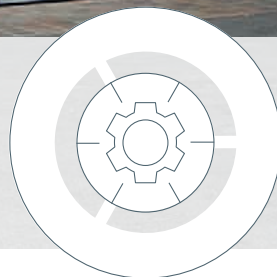




CENTER OF COMPETENCE
DELTA OHM



Specialist by Competence.

Delta OHM – time-tested & innovative.

Delta OHM



Delta OHM is located near Padua, outside Venice. Since its founding in 1978, Delta OHM, with its current staff of 60 employees, has established an excellent international reputation in its work on the development and production of electronic measuring devices. The product assortment of Delta OHM comprises a broad spectrum from simple transmitters or handheld measuring devices to independently operating measuring system solutions with remote data transmission. Delta OHM currently exports to over 70 countries.

The quality of the products is assured, among other things, by the in-house calibration laboratory accredited according to ISO 17025 (ilac-MRA ACCREDIA LAT N° 124).

The merger with the GHM Messtechnik Group in 2015 opened up new possibilities for Delta OHM. The company headquarters, sales, marketing and training centre of the GHM GROUP is situated in Erolzheim in southern Germany. All members of the GHM GROUP (Greisinger, Honsberg, Martens, Imtron, T&A and Delta OHM) operate in their respective locations as centres of competence for product development, production and materials handling.

Delta Ohm products are still handled by international Delta Ohm distribution in Padua and product specialists within the GHM Group.



ACCREDIA LAT N° 124 laboratory
photometry/radiometry measurements



Delta OHM calibration laboratories are accredited according to ISO 17025 (ilac-MRA ACCREDIA Lat N° 124) for the measurement of the following physical factors:

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

Markets



Our focus markets in which Delta OHM products have been proven for years:

- Environment, labour protection occupational safety and medicine
- Alternative energies (photovoltaics, wind power)
- Meteorology, geology, hydrology, weather forecasting
- Agriculture, agro-meteorology, animal husbandry, fish breeding
- Ventilation and air conditioning, building automation
- Museums, shopping centres and public places
- Medicine, hospitals, chemical and pharmaceutical laboratories
- Water analysis, laboratories
- Food
- Infrastructure (roads, railway, airports, harbours)
- Industrial applications (pneumatics and others)

Environment, labour protection, occupational safety and medicine



Comprehensive product range for detection and evaluation of environmental conditions in the workplace regarding temperature, noise, vibration, lighting and room air quality. The measuring devices are oriented towards current standards – the technical regulations (labour protection) on the topic – “Incoherent optical radiation” .

- Sound level measuring devices (class 1 and 2), noise sources and calibrators
- Vibration measuring devices and calibrators
- Photometers and radiometers for detection of lighting strength, UVA, UVB, UVC, etc.
- Incoherent optical radiation
- WBGT, PMV, microclimate data logger
- Room air quality CO₂, CO

e.g. data logger HD 2402 for incoherent optical radiation, sound level meter HD 2110L, photometer/radiometer HD2102.1 and HD2102.2

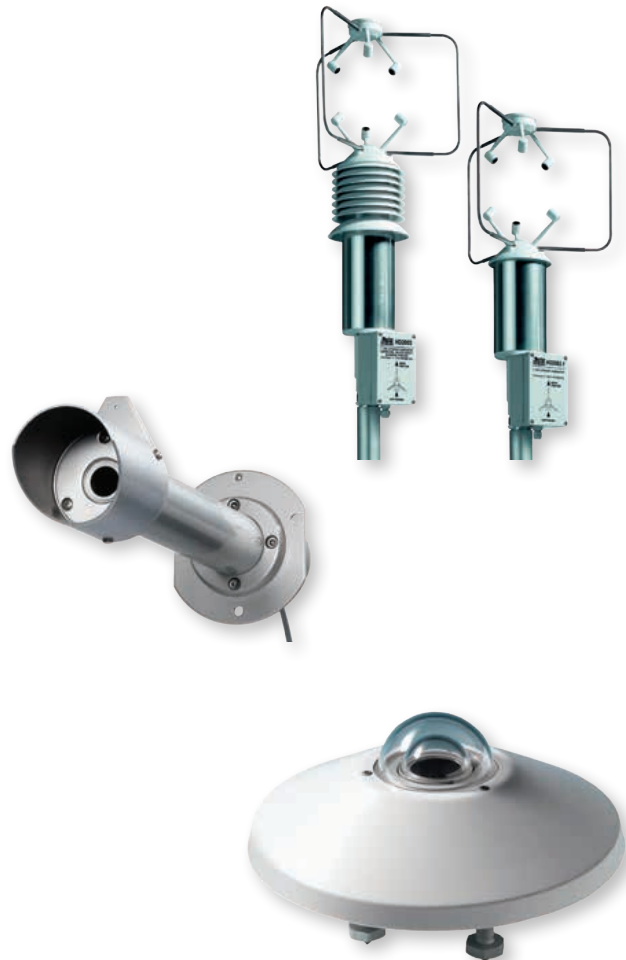
Alternative energies (photovoltaics, wind power)



We offer various measuring solutions specifically for detection and improvement of efficiency of solar and wind power systems:

- Portable radiometer
- Pyranometer (all classes)
- Temperature sensors for solar panels
- Pyrheliometer
- Sensors for measurement of sunshine duration
- Sensors for measurement of wind speed and direction
- IPV modules and other products

Of course, we also offer the appropriate data logger components for all aforementioned variables.



e.g. 3-axis ultrasonic wind meter HD 2003/HD 2003.1, pyrheliometer LP PYRHE 16, pyranometer LP PYRA 02

Meteorology, geology, hydrology, weather forecasting and agro-meteorology



Measurement solutions for exact and reliable detection of nearly all relevant variables, such as:

- Portable radiometer
- Pyranometer (all classes)
- Albedometer
- Pyrgeometer
- Pyrheliometer
- Rain detector and rain gauge
- Data logger
- Weather stations
- 2D/3D ultrasonic anemometer

Sensors for measurement

- of sunshine duration
- of barometric air pressure
- of temperature (also ventilated) and air humidity
- of leaf wetness
- of floor humidity and temperature
- of UVA/UVB radiation
- of UV index
- of photosynthetically activated radiation (PAR)
- of radiation balance ("net radiometer")

e.g. weather station HD32.35, ultrasonic anemometer HD52.3D,
rain meter HD 2013

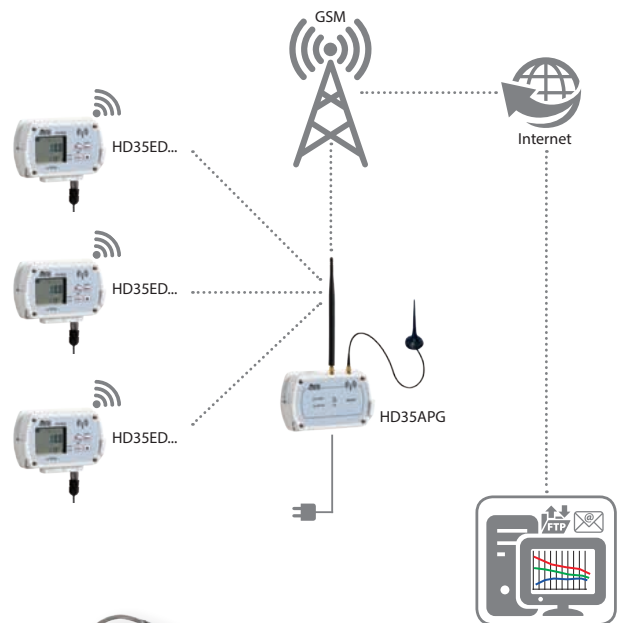
Ventilation and air conditioning, building automation



A wide spectrum of applications is covered with our portable and industrial measuring technology for temperature, air speed, (impeller, heat wire, pitot dynamic pressure), air humidity, differential pressure, lighting and room air quality (CO₂/CO). The applications range from measurement of individual parameters (e.g. differential pressure monitoring of an air filter) to complex wireless data logger systems with which a variety of parameters are automatically detected and documented.

Museums, shopping centres and public places

In addition to the aforementioned applications, we offer solutions for special environments, such as the monitoring of light conditions in museums.



e.g. HD 35 series / mobile wireless connection only with Access Point HD 35 APG, thermo-anemometer HD 2103.1, HD 2103.2 and temperature/humidity data logger indicator/regulator transmitter HD 2817T

Medicine, hospitals, chemical and pharmaceutical laboratories



In addition to the aforementioned general ventilation and air conditioning requirements, there are additional special requirements, such as the continuous monitoring of cooling or heating cabinets, measurement of inlet flow speed of fume cupboards or differential pressure monitoring of operation rooms and clean rooms.

Delta OHM offers suitable handheld measuring devices, data loggers and wireless data logger systems for these applications.

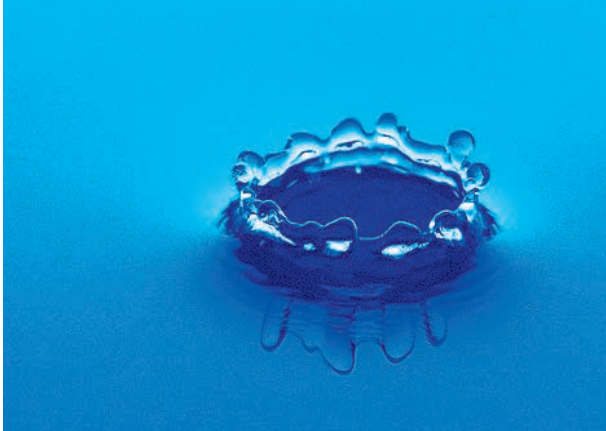
Software options that satisfy FDA requirements CFR21 part 11 are available for electronic measurement data recording.

We offer the right solution for radiometric applications (UVA, UVB, UVC, UVe_{eff}, etc.).



e.g. HD 208 series mini data logger, low-pressure transmitter HD404

Water analysis, laboratories



For mobile use, for use in the laboratory or use in industrial applications for measurement of:

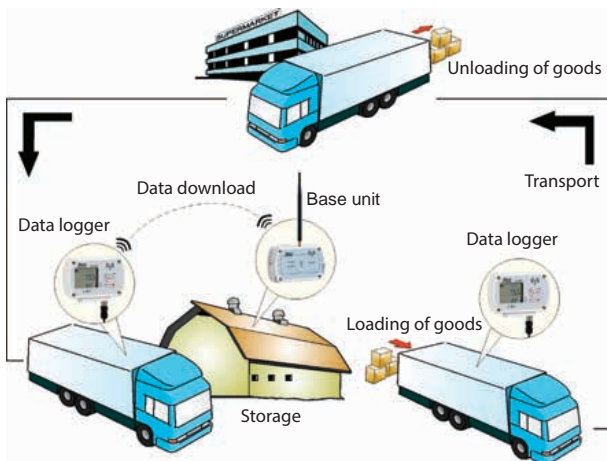
- pH value
- Conductivity
- Redox potential
- Oxygen concentration
- Turbidity

The handheld measuring devices also offer the possibility of simultaneously measuring and reliably storing pH value, conductivity and temperature.



e.g. pH meter HD 3405.2 tabletop unit

Food



Temperature and humidity monitoring is a central topic, e.g. for the production, packaging, transport and storage of foods (cold chain monitoring).

Delta OHM offers a broadly diversified assortment of temperature / humidity measuring technology, starting with the handheld measuring device with temperature sensor, to devices with data logger function and wireless data logger systems with automatic data acquisition.

Our UVC measuring devices are used for pasteurisation / sterilisation applications.



Monitoring of perishable (food, medication, etc.) or fragile goods during transport, e.g. with the wireless data logger HD 35.

Infrastructure (roads, railway, airports, harbours)



Measuring equipment for continuous monitoring of wind speed (bridges, cranes, etc.) and lighting (road lighting, tunnel entrance haze luminance) and general weather parameters (see meteorology).

Our data loggers are frequently used for concrete hardening.

With integrated thermocouples, the temperature in the concrete is continuously monitored and recorded, wherein optimal properties of the end product can be assured.



e.g. temperature data logger for up to 16 measuring points HD32.8/16

Industrial applications



In addition to the measuring devices and applications shown on the previous pages, we offer additional measurement solutions for special industrial applications.

These includes, for example, sensors for measurement of dewpoint / humidity in compressed air systems or a wide assortment of manometers, barometers and pressure transmitters for numerous tasks.

e.g. RH compressed air probe HP480 - T480.1 - S.TC2.480.2 and relative pressure transmitter HD3604T

Physical variables



Delta OHM offers portable (or handheld) and industrial measuring devices for measurement of:

- Temperature
- Humidity (rel. humidity/ dewpoint)
- Pressure
- Air speed
- Photometric and radiometric variables (such as Lux, UVA, UVB, UVC, UVCeff, PAR, PHOT, BLUE, etc.)
- Sound level
- Vibration
- Gas concentration (CO₂, CO)

and for a number of derived characteristics and indices.

Delta OHM also offers calibration laboratories that are accredited according to ISO 17025 (ilac-MRA ACCREDIA Lat N° 124) for the measurement of the following physical factors:

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



Calibration laboratories



ACCREDIA LAT N° 124
Acoustic measurement
laboratory



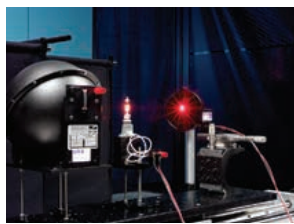
ACCREDIA LAT N° 124
Temperature measurement
laboratory



ACCREDIA LAT N° 124
Humidity measurement
laboratory



ACCREDIA LAT N° 124
Pressure measurement
laboratory



ACCREDIA LAT N° 124
Photometry and radiometry
measurement laboratory



ACCREDIA LAT N° 124
Air speed laboratory

Delta OHM has an in-house calibration laboratory in Padua that is accredited according to ISO 17025 for measurements of the following physical factors:

- Temperature
- Humidity
- Pressure
- Air speed
- Photometric / radiometric variables
- Sound

ACCREDIA is the Italian national accreditation authority and is a member of the EA, IAF and ILAC European and international accreditation organisations.

ACCREDIA also has signed the same multilateral agreements on mutual recognition (EA MLA, IAF MLA and ILAC MRA).

The purpose of these agreements is the mutual recognition of testing conducted in order to avoid technical trade barriers and cost-intensive repetitive testing.



ACCREDIA LAT N° 124 laboratory
photometry/radiometry measurements



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■ FOUNDING

GHM Messtechnik, a complete provider for measurement technology and industrial electronics, was formed in 2009 through the consolidation of the companies GREISINGER electronic, Honsberg Instruments and Martens Elektronik.

■ FUTURE-ORIENTED

In March 2010 Imtron Messtechnik was the fourth company integrated into the GHM Group and these companies merged in July 2013 to form GHM Messtechnik. The new sales and training centre was established in Erolzheim in the course of this reorganisation. T&A Telemetrie & Automation joined in March 2014 as a new partner in the field of control technology. At the end of 2015, Delta OHM was acquired as the newest member of the GHM Group, which expanded the target group of the GHM Group to areas such as renewable energies or meteorology, etc.

■ RESOURCES

With about 300 employees and more than 35 developers in the seven locations in Erolzheim, Regenstauf, Remscheid, Barsbüttel, Owingen, Kassel and Padua, GHM Messtechnik offers a complete product portfolio for the widest variety of requirements of measurement technology.

■ SALES

Our distribution network throughout Germany provides outstanding technical advice with our field staff. Supplemented by our sales subsidiaries in the Czech Republic, Denmark and the Netherlands, as well as sales partners throughout Europe, in North and South America, Asia and Africa, we have a nearly worldwide presence. The comprehensive network makes it possible to guarantee optimal customer assistance on site. Delta Ohm products are still handled by international Delta Ohm distribution in Padua and product specialists within the GHM Group.

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