

GAS- AND WATER MEASUREMENT TECHNOLOGY

PRODUCTS



TECHNOLOGY WITH A PASSION!

HERE FOR YOU SINCE 1989.



„Technology with a passion!“ is our motto.

As a family company, we have been making a name for ourselves as a manufacturer of measuring devices, software and system solutions for the gas, water and pressure sector since 1989.

We specialise in the fields of gas detection and gas measurement technology, as well as water leak detection and pressure measurement technology and our particular strength lies in providing competent advice and our range of ready-for-use complete systems.

Whether connection adapters, antistatic hose connections or suitable aids and tools, we offer our customers comprehensive solutions.

With sales sites in the Netherlands, China and Poland, we are also present locally with our own partners so that we can guarantee comprehensive customer service here too.

But we are also represented in many other countries all over the world with long-standing partnerships with our distributors.



With constant, positive development into the future

INNOVATIVE DEVICE TECHNOLOGY.

We develop, produce and sell

- Explosion-protected gas warning devices
- Explosion-protected gas measurement and gas detection devices
- Leak search devices for gas and water
- Pressure testing devices and systems for gas and water
- Software for evaluating and documenting measurements



GAS

We are at home in the field of gas measurement technology and gas leak detection. Whether you need technology for checking pipe networks, internal installation, gas pressure control systems or the pipe network. We offer specialist devices for a task, as well as combination devices with a wide range of sensors for practically all tasks.



WATER

In addition to the pressure measurement box, we also offer the required inspection pump, the connection accessories and everything integrated in a pressure testing trailer on request. But we can also help you out with leading technology for pre-localisation and localisation of leaks. Noise loggers form the basis for pre-localisation. As correlating noise loggers, they can also be used for precise localisation.

Correlators in different power levels and metal detection devices for localising slide rods and manhole covers round off the product range.



PRESSURE

An extensive range of accessories is required to carry out pressure tests, which must not only fulfil the requirements for use in the drinking water sector, but the quality of which also often determines the time required for and the success of a pressure test. You won't find a better partner when carrying out pressure tests!

As a market leader in the field of pressure measurement technology in Germany, we offer measurement technology and accessories for both the water and the gas sector, for the pipe network, as well as internal gas installation.

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GAS TECHNOLOGY

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MADE FOR DAILY USE



GAS



WATER



PRESSURE



OUR PRODUCTS.

Our philosophy

A consistent concept for standardised handling of all Esders measuring devices. You have more important things to do than to learn how to operate a wide range of measuring devices. This is why we have made our menu guidance simple and standardised, both for gas detectors and pressure gauges. Our programming aims to ensure smooth operation in tough everyday conditions.



ADAPTED DISPLAY

It offers a clear, bright and uncomplicated typeface and the measured values are displayed according to the requirements. Sometimes it is useful to show a value in large display, while at other times it may be necessary to show a large number of values at once.

STANDARDISED HANDLING

You must be able to carry out your task spontaneously without having to use the equipment every day. And this is what you can expect if you have ever operated different Esders measuring devices.

FUNCTION KEYS F1 AND F2

They offer a function adapted to any task, with a description provided in the bottom display line. This is easy for anyone to master, particularly in the age of the mobile phone.

The operation is logical and makes (working) life significantly easier. For example, key function F1 is only shown if it is needed.

GAS TECHNOLOGY



ELLI



ELLI is an innovative, mobile laser measuring device, which can be used to conveniently monitor inaccessible or difficult to access areas and hazardous areas from a distance. As a highly specialised system for selective detection of methane, it is ideally suited for checking for leaks in biogas and natural gas plants. Methane is reliably detected even from distances of 30 m (100 ft).



GasCam® SG



As a highly specialised system for detecting of methane, is it ideally suited for checking for leaks in biogas and natural gas plants.

Methane is reliably detected even from distances of up to 100 m (300 ft) and displayed as a coloured cloud of gas against the background in real time. The GasCam® SG does not need a reflective background for the detection.



Gas Standpipe



The Gas Standpipe is designed as a test connection for pressure tests on gas pipelines, as a blow-off pipe for flushing or emptying gas pipelines and for carrying out speed measurements in combination with the GOLIATH. The optional measuring tube, the GOLIATH measurement device with option v and the GOLIATH v hose connection set are required for this.

The Gas Standpipe fulfils all requirements in accordance with German DIN EN 12327, G 465-2 and G 466-1.



GasTest delta3



GasTest delta3 is a pressure and leak quantity measuring device with all options for measurements in the internal gas installation in accordance with DVGW-TRGI 2018. With the optional automatic controller test, a touch display for entering data and signature and a Bluetooth interface, it is state-of-the-art technology.

Fields of application:



GAS TECHNOLOGY



GOLIATH



Detect - warn - measure - analyse

A universal measuring device with comprehensive usage options in the applications confined space entry, bar hole testing, above ground inspection, building inspection, purging gas purity, ethane analysis and pressure test up to 2 bar (200 kPa).



GOLIATH Biogas



Robust gas measuring device for special use in the fields biogas, landfill and sewer gas. In addition to the measurement of methane and carbon dioxide between 0 and 100 %Vol., optional sensors can be used for oxygen and hydrogen sulphide.



GOLIATH Warnen



In the field of gas and water supply, as well as waste water technology, workplace monitoring and monitoring of the atmosphere in close and enclosed spaces is an intrinsic part of the work processes. In addition to the measurement of methane and carbon dioxide, optional sensors can be used for oxygen, carbon monoxide and hydrogen sulphide.



HUNTER



A highly specialised measuring device for overground testing of underground and exposed pipes. Extreme sensitivity, reaction speed and extremely low threshold for interfering gases guarantee optimal results. The integrated Bluetooth function enables easy connection to laptops and Esders Pi Note for easy documentation.

Fields of application:

- | | | | |
|---|---|---|--|
|  Confined Space Entry |  Building Inspection |  Inspection of Exposed Pipes |  Bar Hole Testing |
|  Above Ground Inspection |  Purging Gas Purity |  Ethantest |  Pressure Testing |



LeckOmiO / EX



LeckOmiO is a combination device for versatile use in gas installations. It can detect even the smallest gas leaks and carry out quick and precise pressure measurements, while also offering extremely easy handling and varied usage options: Stress and leak tests in accordance with German TRGI and ZVSHK, controller test and measurement of flow, idle and operating pressures.

Also available as an explosion-protected version in accordance with ATEX directive 2014/34/EU.



OLLI



OLLI is an explosion-protected multi-area gas measuring device for combustible gases, oxygen and toxic gases. It is available in versions with and without internal pump. The rubberised plastic casing guarantees durability and protection in accordance with IP67. With operating periods of approx. 30-50 hours depending on the version, it easily fulfils all requirements. The combination of combustible gases, carbon monoxide and hydrogen sulphide measurements also makes it suitable for use in the biogas sector. It can also be used as a pressure measuring device for simple pressure tests.



Prof. Gas Leak Detector



Comprehensive and specialist accessories (comprising a GPS receiver and carrying system for the device, as well as a tablet/laptop) for systematic pipeline testing. Connection to outdoor and tablet computers is possible to display measurement results and for controlling the gas detector.



SAFE EthanTest



Simple and automated analysis of gas to differentiate between natural gas and biogas. Gas leak localisations where a gas analysis is required occur time and time again in practice. The analysis aims to ensure that the leaking gas is natural gas and not biogas (digester gas or swamp gas).

The transport case contains a measurement system, protocol printer and probe.

Fields of application:



GAS TECHNOLOGY



SIGI EX



The SIGI EX gas measurement system is a multi-area gas measuring device for combustible gases with integrated pump and for the applications cavity test, confined space entry, building test, purging gas purity and optional pressure test. It is guaranteed to impress any user with an operating period of over 12 hours and extremely easy handling.



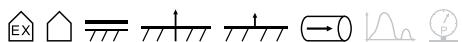
Single Gas



Reliable and durable single gas warning device (CO, H₂S, O₂) with 24 months continuous operation in compact and maintenance-free design.



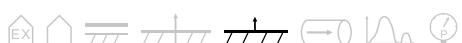
Probe Systems



Practice-oriented Probe Systems for all tasks in the pipe network, in shafts, in industry and in internal installation.



Carpet Probe TS14



In addition to the gas detection device, the role of the probes should not be underestimated. Their design has a significant impact on the quality of the sampling. The Carpet Probe not only offers optimised extraction of the gas sample, but also an extremely long service life of the material, with a warranty of three years for the carpet mat.

Fields of application:





Vakumobil



The Vakumobil enables gas enrichments to be extracted to improve the localisation of leaks in cohesive soils under sealed surfaces. It delivers optimised results through systematic and simultaneous extraction through multiple geothermal probes.



VibraGAS / EX



VibraGAS enables quick and precise localisation of even the smallest leaks in the gas installation. A vibration alarm is available in addition to the visual and acoustic signal. The user is notified of even the smallest traces of gas without alarming the residents.

Also available as an explosion-protected version in accordance with ATEX directive 2014/34/EU.

Fields of application:



GAS TEST EQUIPMENT

EPS Autocal



Computer-controlled testing device for fully automated testing of gas measuring devices, leak measuring devices and pressure measuring devices via sequence control. It is possible to switch and control up to 11 test gases, can also be used for flow rate and pressure measurements. The corresponding PC software enables device and test gas measurement.



Testing Equipment

Testing equipment for manual testing of gas detection, gas warning and gas measuring equipment. Application and flow rate control of up to five test gases. A separate gas passage for the 10 ppm test is in place and pump output and vacuum can also be tested.



Test Gas

We have different gas mixtures in test gas cans, such as the 1 litre pressure gas can with 12 bar (1.2 MPa) filling pressure and 12 litre test gas capacity.



WATER LEAK DETECTION



DruckLogger DL 4



Precise, programmable pressure gauge for practical measurements in water pipe networks. Direct connection to underground and surface hydrants and the use as a long-term measuring device set the DruckLogger DL 4 apart from other pressure measuring devices. The DruckLogger has the proven menu guidance with an operating concept via solenoid and Hall sensors.



HUNTER H₂



Detection device for reliable localisation of even the smallest leaks using hydrogen tracer gas in water grids, cold water and heating pipes. Special probes ensure reliable detection of even the smallest gas leaks and enable a high detection limit.



Lecksucher LS 01



Acoustic leak detection device with state-of-the-art microphone technology. Water escaping under pressure creates noise, which spreads through the water column, the pipe and the ground. These noises can be recorded with the LS 01, amplified and rendered audible to the human ear.



TIB 40



The TracerJect procedure with the TIB 40 (Tracergas Injection Box) enables the tracer gas method to be used during operation. Display and control of the water pressure and supplied gas are also possible. The integrated filter and check valve ensure the protection of the flowmeter and the control loop.

Fields of application:



Noise Logger



Data Logger



Electroacoustics



Tracergas



Correlation

WATER LEAK DETECTION



Vacuum-Probe-System VSS 15



Mobile vacuum intake system for improved detection of even the smallest traces of gas. High power pump, effective protection for water ingress.

PARTNERSHIP

We are in a long partnership with Primayer. Customers outside of Germany please contact and order from Primayer directly.



Eureka3



Enigma



Phocus3

For more information about Primayer products visit their website:

www.primayer.com

Fields of application:



Noise Logger



Data Logger



Electroacoustics



Tracergas



Correlation

PRESSURE MEASUREMENT



Digital Water Flowmeter DWZ2

The Digital Water Flowmeter DWZ2 enables quick and precise flow rate measurement with easy handling and fulfils the requirements of the German W 400-2.

Two different measuring turbines are available for different flows up to 30 or 160 l/min.



DruckLogger DL 4

Precise, programmable pressure gauge for practical measurements in water pipe networks. Direct connection to underground fire hydrants (German version EN 14339:2005) and pillar fire hydrants (German version EN 14384:2005) and use as a long-term measurement device set the DruckLogger DL 4 apart from other pressure measurement devices. The DruckLogger has the proven menu guidance with an operating concept via solenoid and Hall sensors.



Pressure Testing Trailer

A wide range of accessories is required for carrying out pressure tests. The Pressure Testing Trailer guarantees practice-oriented transport and setup for quick pressure tests on-site.



DruckTest 2000 / EX

The DruckTest 2000 enables quick and precise pressure measurements with easy handling and a wide range of usage options. As a differential pressure measurement system with two connections, positive (overpressure) or negative (vacuum) pressures can be measured against the atmospheric pressure. Settling, adjustment and measuring times are adjustable and an integrated menu for controller tests and the input of project numbers make work easier. Also available as an explosion-protected version in accordance with ATEX directive 2014/34/EU.

PRESSURE MEASUREMENT



DruckTest GaWa / EX

The DruckTest GaWa enables quick and precise pressure measurements with easy handling and a wide range of usage options. With two sensors and three measuring ranges, the device can be used for all pressure measurements on gas pressure control and measuring stations. The high-pressure sensor is available in different measuring ranges of 10, 25, 50 and 100 bar (1 MPa, 2.5 MPa, 5 MPa and 10 MPa). Menu-guided processes for testing controllers, safety shut-off valves, safety relief valves are integrated.



DruckTest memo

The DruckTest memo offers the most comprehensive usage options of the Esders pressure measuring devices. Through external pressure and temperature sensors, the usage area includes measurements in accordance with W 400-2, G 469, EWE and Avacon operating instructions. Sequence controls and comprehensive documentation options are available for all processes and also for processes according to **EN 805**.



GasTest delta3

GasTest delta3 is a pressure and leak quantity measuring device with all options for measurements in the internal gas installation in accordance with DVGW-TRGI 2018. With the optional automatic controller test, a touch display for entering data and signature and a Bluetooth interface, it is state-of-the-art technology.



Inspection Set for Service Line

In practice, it is necessary time and time again to measure the pressure in the building water installation. The connection set presented here can be used easily in conjunction with measuring devices like the DruckTest GaWa, DruckTest memo, DruckLogger DL 4 or the external pressure sensor of the GasTest delta3.



Compact Compressor KK 60

High-quality industrial compressor for pressures up to 10 bar (1 MPa) with a footprint equivalent to an A4 sheet of paper. Integrated, adjustable pressure reducer and tubular frame for cooling the compressed air. The high durability and long service life guarantee long-term use.



LeckOmiO / EX

LeckOmiO is a combination device for versatile use in gas installations. It can detect even the smallest gas leaks and carry out quick and precise pressure measurements, while also offering extremely easy handling and varied usage options:

Stress and leak tests in accordance with TRGI and ZVSHK, controller test and measurement of flow, idle and operating pressures.

Also available as an explosion-protected version in accordance with ATEX directive 2014/34/EU.



Powered Test Pump MPP

Practice-oriented test pumps with electronic control unit for simplified execution of pressure tests according to DVGW worksheet W 400-2. The test pressures can be set, approached and maintained in 0.1 bar (10 kPa) increments.

The pumps are available in versions with different delivery rates and maximum outlet pressures.



TempTest

Precision thermometer and Datenlogger for pressure tests on pipes. The TempTest in conjunction with ground temperature probes is used for measuring the ground temperature. The TempTest and the temperature probes exceed the requirements of G 469.

PRESSURE MEASUREMENT



Accessories Pressure Technology

Problems with carrying out a pressure test successfully are often not due to the pipe, but rather the necessary tools for filling, venting and documenting the pressure gradient. Practice-oriented testing bodies, conversion adapters, cases, hoses and standpipes enable pressure tests to be carried out perfectly and successfully.

CUSTOMISE YOUR DEVICE!



We are able to implement individual and international company standards such as requested by companies like Gas Natural (Spain), Eandis (Belgium), EWE (Germany) and Avacon (Germany). We are also prepared to examine your requirements and find a solution. Software adaptations in any form are possible as well to customise your device according to your requirements. For example, W 400 is the German national standard for EN 805 which is also available as firmware.

GLOSSARY

DVGW – Deutscher Verein des Gas- und Wasserfaches (= German Association for the Gas and Water Industry). The DVGW is a recognized standardization body for the gas and water industry, a centre for technical and scientific know-how in the gas and water sectors and an initiator and promoter of research projects and innovations (Source: <https://www.dvgw.de/english-pages>, 06.08.2019)

EN 805 - Water supply - Requirements for systems and components outside buildings; German version EN 805:2000

G 469 - Druckprüfverfahren (= Pressure Test Method). German technical rule for pressure testing of gas pipes up to 16 bar (1.6 Mpa) operating pressure.

TRGI - Technische Regeln für Gasinstallationen (= German technical rules for gas installations)

W 400 - (**TRWV** - Technische Regeln Wasserverteilung = Technical Rules for Water Distribution) is a DVGW worksheet dealing with the planning of distribution systems for drinking water supply. The second part of the Worksheet W 400-2 „Construction and testing of water supply systems“ states that water pipelines must be subjected to a leak test prior to commissioning. It is intended to check the quality of the entire pipeline construction and to ensure a reliable water supply and high drinking water quality. The current methods for leak testing water pipelines are pressure loss methods: the contraction method, the standard method and the accelerated standard method. For a simple and smooth execution of these procedures you will find the suitable equipment here.

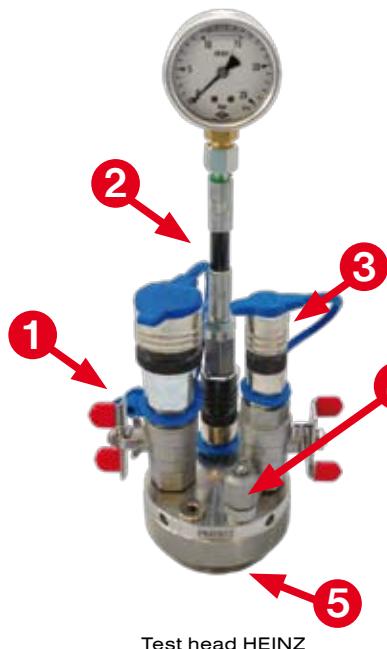
ZVSHK - Zentralverband Sanitär Heizung Klima (= Central Association for Sanitary, Heating and Air Conditioning) is the professional organization, trade association and lobby of the SHK-craftsmanship in Germany.



WE OFFER MORE!

Here is a small selection of our accessories range:

Pressure gauge



Test head HEINZ

The Test head "HEINZ" and associated testing

The Test head "HEINZ" provides practical connections and the test adapters ensure a truly watertight transition to many different screw threads and fittings.

1. Pressure connection with large coupling for high flow rates.
2. Connection for pressure control gauge
3. Discharge coupling with ball valve for discharge hose or sound damper
4. Minimess connection for the DruckTest memo measurement device
5. Connection thread for a wide range of testing adapters - O-ring sealed

All quick-connect couplings can be locked for added safety and are protected against soiling.
P-max = 60 bar

Available Test adapter:

G 1/2"	Item no. 402028
G 3/4"	Item no. 402029
G 1"	Item no. 402030
G 1 1/4"	Item no. 402031
G 1 1/2"	Item no. 402032
G 2"	Item no. 402033
G 2 1/4"	Item no. 402034

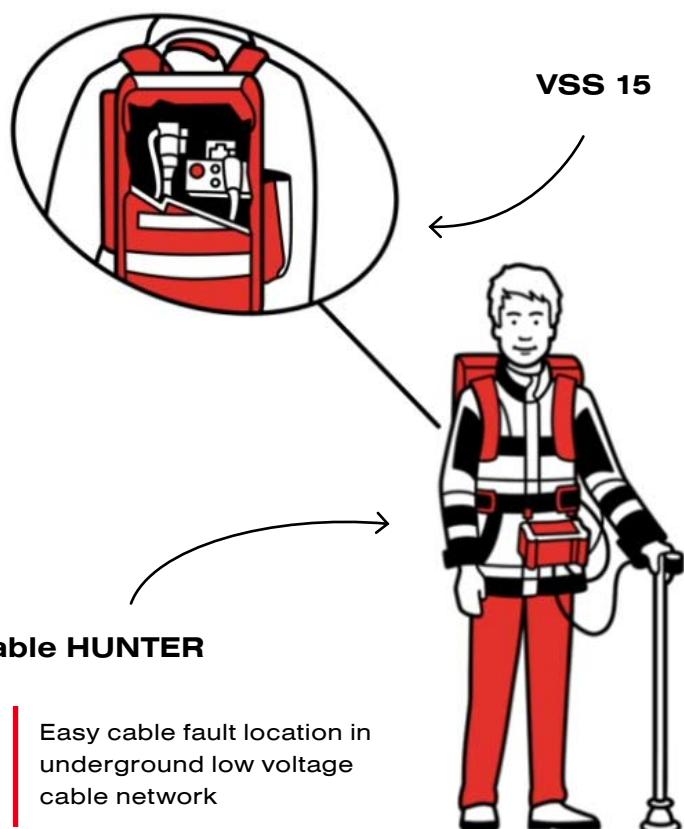
with pre-assembled
O-ring on
sealing side

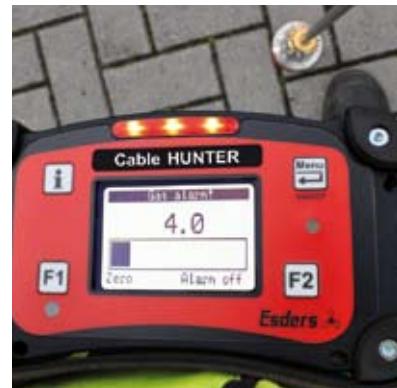
DETECTION OF CABLE FAULTS



Cable HUNTER

With our Cable HUNTER you can locate cable faults in the low-voltage network independently and immediately after the fault is reported, without any help from external cable measurement companies. The measurements take place via two sensors for detecting flue gas from a cable fire and for differentiation of interference gases. Optimised probes and the vacuum probe system help to extract even the smallest traces of gas.

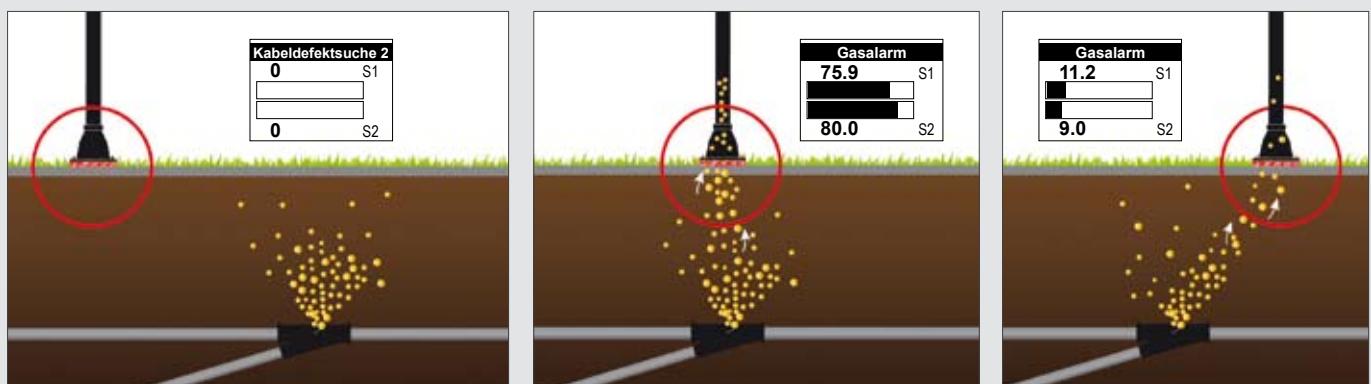




Localisation of cable damage in buried low-voltage networks

VSS  15
Fachtagung

... and this is how it works:



- Fault localisation in the grid with the consumers still connected
- Reduction of downtime minutes in the grid by preventing false excavations
- Portable technology with short-term amortisation
- Reliable identification of the gases from cable fires

SOFTWARE WITH EXPERTISE.

We create our software ourselves

Our programmers and developers know the measurement technology inside out. This means that they speak the same language as our customers. We can therefore react faster than it would usually be possible. We are on-hand as a partner through the entire project. We support our customers with the organisation and setup of the master data handover, as well as with the provision of the recorded data for transfer to downstream software environments.

PROFESSIONAL DOCUMENTATION

Professional documentation of the work and measurements plays a key role in the field of measurement technology. It is often necessary to print out a measurement protocol directly on-site.

Saved data can be read out by our network-compatible PC software and saved in a database. Comprehensive evaluations and report functions with a wide variety of adjustment options fulfil all requirements. The data can also be exported easily in numerous formats.

And if you need help, simply contact our IT support.

ONLINE ADVICE & CONNECTION

Connecting to your system is the best way to provide support. Your problem is analysed and we can act directly - via the internet, without having to carry out a data exchange.

Our online advice service is available for all questions.



GasTest delta3 with Bluetooth and touch display for data acquisition.

FROM THE SITE, DIRECTLY TO THE OFFICE

A successful measurement isn't complete until the evaluation and approval has been carried out in the office.

Using the Esders Bluetooth Module (EBTM) or directly with our Bluetooth-compatible devices, Android smartphones are connected to the measuring devices and their data can be sent directly from the construction site for evaluation in the office.



ESDERS APP

With the Esders App and the Bluetooth module, measurement technology can be connected with state-of-the-art technology.

SOFTWARE



Esders Bluetooth Module

Infrared Bluetooth module for remote transfer of device measurement data - directly from the construction site to the office. Can be used in conjunction with an App for Android operating systems.



Esders LIVE

Measurement technology goes online! Flexible online data evaluation with our Cloud solution Esders LIVE.



Esders Pi Note

This is the easiest solution for documenting the inspection of gas pipe networks with Android app and PC software.



Esders Update Tool

Our update tool ensures that you have all new features and associated optimisations directly on your device. The major advantage is that updates can be carried out automatically from your workstation.



Device Software PC1

This software is used for configuring, calibrating and adjusting Esders devices. It enables the recorded measurement data to be managed, efficient evaluation and easy creation of reports and documentation.

SEMINARS



For our German-speaking customers we offer workshops and seminars in Haselünne at our headquarters on a regular basis.

We want to make sure that you can make the best possible use of our devices and equipment. Our workshops and seminars should deepen your knowledge and simplify the use of our devices. There is also the possibility that we come to you. In your home environment or at your workplace, it offers the advantage of being able to carry out practical exercises on existing tasks. If you are interested, we can also offer special training courses for your company, so do not hesitate to contact us.

If you are interested in a seminar in English, please contact us!

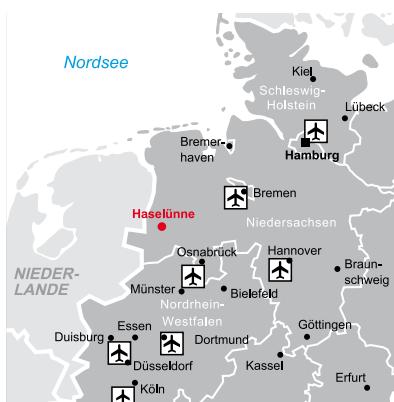
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Quality management

We are certified

Regular voluntary monitoring
according to ISO 9001:2018

