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Tailored to Your Business

**EXTECH**  
INSTRUMENTS  
A FLIR COMPANY

**FLUID**

# BRANDS

*SPRINTER*

**SIKA**<sup>®</sup>

**WIKAI**

**SEMA**  
GASES

**GMS INSTRUMENTS**

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**GMS**<sup>®</sup>  
INSTRUMENTS



In shipping, offshore, and the industrial sector everything revolves around accuracy and speed. We know that agility in these markets is essential. And as a specialist in measuring, regulating and control instruments, we're ready to act swiftly and according to various wishes; of mechanics, engineers, purchasers, ship owners and many other end users. Obviously, given every minute counts. Therefore, you have to be able to rely on a supplier who can immediately draw on more than 45 years of deep-rooted knowledge. And from an extensive product inventory, so when it comes down to it, speed is guaranteed.

In this demanding world, it's the people of GMS Instruments who give meaning to our service, day in and day out. By producing and servicing highly specific and precise instruments. By assembling, repairing and calibrating technical equipment. And by the prompt handling of urgent requests. But especially by understanding the value when the provided good or service works. This can only be done by operating as a single team; working together, each contributing their own expertise, heart and soul. All with the knowledge that you can rely on colleagues, manufacturers and suppliers. That collaboration means that we are in control, now and for decades to come.

With our services, our loyal and also new generations of customers can continue to thrive. Not only because we deliver products and services quickly, but because we know what it takes to finish the job. This is our promise. This way we create lasting relationships; small enough to be personal and agile, yet big enough to stay professional and specialists in our field. That is how we stay ahead.

*GMS Instruments.*



## PRESSURE & TEMPERATURE

Many industries are faced with pressure issues. When pressure needs to be measured, checked, calibrated or controlled GMS Instruments is your partner. Representing leading pressure measuring instruments manufacturers like WIKA, AMOT Controls, SIKA and AS-Schneider Armaturen. GMS Instruments carries a broad range of pressure gauges and transmitters, pressure regulating valves and controllers and pressure calibrators. We also carry accessories for pressure measuring instruments like pressure gauge valves, over pressure protectors and 2-,3- and 5-fold manifolds. All kinds of mounting equipment and adaptors are within our scope of supply.



## FLOW & LEVEL

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To monitor processes flow and level measurements are essential. For example, for gaining insight into the efficiency of a system, it is necessary to know (among other aspects) what the input and the output are. But these measurements are also necessary to monitor waste substances. Furthermore, there is a need to record the delivery and procurement of raw materials to the entire business.

### Equipment

Depending upon the principles on which flow and / or level measurement are based, there are various instruments that can be chosen.

For level detection, for example, a float switch may be used, also known as the Mobory switch. The operation of this switch is based on the mutual repulsion of two magnets. The float is mounted on a pivoting shaft, on which a permanent magnet also is mounted. The same magnet is mounted in the switching section, opposite the magnet on the float. The poles of the two magnets are placed opposite each other in such a way that they repel each other through the flange. GMS Instruments has a wide range in the area of flow and level measurements. Tell us what your flow and / or level challenge is and we will do the rest.



## VALVES & INSTRUMENTAL VALVES

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The way pressure measuring instruments will be mounted on top of the process depends on the situation and type of process. All instrument valves and manifolds are designed to fulfil its unique purpose. For example, there can not be any liquids go through a with a gas filled pipeline. While on the other side liquids are a necessity on liquid filled processes. The reason for this is that there needs to be a fixed zero pressure point in the pipelines, to ensure reliable and accurate measurements. There can be numerous reasons not to install an instrument valve directly to the process, one of the reasons can be: a chemical composed process, high temperatures, or pressure fluctuations.

Manifolds ensure shutting-off impulse lines, deflating a process, and create a fixed zero pressure point. Manifolds come in many different sizes and forms, all dependable on the needs and requirements for each unique process and installation wishes.

Valves fulfil a crucial function within the process. Valves make sure that significant amounts of fluences are treated in controllable amounts by controlled opening and closing of the valve. The valve is the correcting system within the process, what means that in combination with further process equipment, valves are a necessity for taking care and maintaining the right amount of process going through.

A valve needs to have certain standards to keep a process running. Important features are for example the characteristics and capacity of the valve. When there is a deviation in one of the components, for instance, the flow of a process will be disrupted which can come with expensive downtime consequences. With the right features, a controlled process can take place safely.

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Clorius  
CONTROLS

Danfoss

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# DIAGNOSTIC

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Nowadays maintenance is not simply a reaction to a fault but involves regular measuring and testing so that wear and tear of parts can be predicted. This predictive maintenance depends on dedicated, accurate and certified test and measuring equipment. GMS Instruments can supply a wide range of diagnostic equipment from stock and if preferred with a retraceable certificate.



## ENVIRONMENT & ENGINE CONTROL

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The operational activities of all the different industries and shipping are guided by rules and regulations issued by governments and agencies. To ensure compliance we can give engineering support and supply instruments which check combustion of engines, measure and control output of exhaust gasses (like Nox), supply complete treatment systems for oily water, sludge and sewage and provide training for the effective use of these systems. We also have a large assortment of equipment to ensure a responsible use of water, oil and other valuable commodities. All because the environment matters.





## TEST & CALIBRATION

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Pressure, temperature and other factors are important parameters in practical workplaces and in an industrial process. This is why test calibration equipment plays an essential part in the monitoring and protection of processes and environments. It also ensures that equipment functions perfectly on time, every time.

And it's not just quality and process monitoring or indications for preventive maintenance that are at stake, but people's lives as well. To ensure that your equipment is functioning properly, it is essential that it is regularly tested and calibrated. Various internationally recognised inspection bodies also require that critical measurement equipment is to be tested and calibrated at regular intervals.

### Equipment

Depending on the degree of accuracy required and the precise nature of the test or calibration, our technical advisors will make the appropriate choice from our extensive range of test calibration equipment.

To test a pressure switch, for example, a hand pump with an analogue gauge is the most effective solution, whilst the calibration of a temperature sensor on which the quality of your product depends may require a highly-accurate temperature calibrator supported by PC-based processing of the measurement data. Tell us what your test calibration equipment challenge is, and we will do the rest. We are specialised in the following product categories:

- Pressure gauges
- Temperature Calibrators
- Pressure calibrators
- Multimeters
- Portable gas detection equipment
- Fixed gas detection equipment

### Certification

You can ask GMS Instruments to help you with the certification of your equipment. Please visit the certification service page. Logistics of GMS Instruments offers an average delivery time of one day, 24 hours a day, which means that we can service your equipment very swiftly. We also provide a pick-up and redelivery service within certain areas of the harbours Rotterdam and Antwerp.





## GAS DETECTION

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When lives are at stake, you need a certified partner and advisor who has extensive experience and knowledge in the supply and testing of gas detection equipment. Renowned brands of portable and fixed gas and oxygen detection systems can be supplied from stock along with all necessary spare parts. A wide range of test gases can be obtained from stock at the main ports of the world saving time and money!



## THERMAL IMAGING

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Thermal imaging is the use of an infrared imaging and measurement camera to “see” and “measure” thermal energy emitted from an object. Infrared allows us to see what our eyes cannot. Infrared thermography cameras produce images of invisible infrared or “heat” radiation and provide precise non-contact temperature measurement capabilities. Nearly everything gets hot before it fails, making infrared cameras extremely cost-effective, valuable diagnostic tools in many diverse applications. And as the industry strives to improve product quality, and enhance worker safety, new applications for infrared cameras continually emerge. The latest application is “night time” navigation. GMS Instruments has a complete product range of thermal imaging cameras for night time navigation, Anti-Piracy, iceberg navigation, oil spill detection, safety onboard and man-overboard situations for maritime applications.





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