

Have you heard of OPTIworld?

OPTImum measuring devices – the new family of instruments
OPTImum documentation – clear and easy
OPTImum application – through new features

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 One device for all measurement tasks 2

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OPTIFLUX

electromagnetic flowmeters

setting new standards
 in measurement technology

A quote from an expert on the new OPTIFLUX family confirms that KROHNE has once again succeeded in setting a new standard for measurement technology:

“ The highlights of the new OPTIFLUX are its innovative and intelligent diagnostic functions. With these, KROHNE has achieved a previously unattained level of functional reliability and set a benchmark for the competition. ”

Dr. Armin Brucker,
 BASF AG

BASF

Complete
 expertise under
www.krohne.com



OPTIFLEX – for interfaces as thin as 50 mm

The OPTIFLEX Guided Radar Level Meter can detect and measure the thinnest interfaces, hardly thicker than a 50 mm film of oil on water. Other devices only start at 100 mm.



faster – more innovative – more universal

OPTIFLUX the new family of electromagnetic flowmeters

exceeds your expectations

With only one signal converter and a wide choice of sensors, the new OPTIFLUX covers all applications - no matter whether simple water measurement, corrosive or abrasive media or pulp in the paper industry.

This simplifies engineering, procurement and stockholding, and leads to cost savings for the user.

This is the result of more than 40 years of experience with electromagnetic flowmeters.



New standards in measurement technology



With the aid of the latest technology the measuring performance of electromagnetic flowmeters has again been significantly improved. The positive effects of the improvements are particularly notable in areas where today's flowmeters have difficulties. Examples of this include flow measurement of products with ultra-low conductivity levels, fast product changes with corresponding changes of the pH value, and measurement of pulp in the paper industry. This increase in performance has been achieved by a **30-fold improvement** in the measuring technology components. In the process, the current potential for design optimisation has been exploited to the full.



OPTIFLUX with 3 x 100% diagnostics

- 100% application diagnostics**
- 100% out-of-spec test**
- 100% meter diagnostics**

The new diagnostics package for the OPTIFLUX not only fulfils the NAMUR guidelines, but exceeds them.

In addition to extensive application diagnostics, the OPTIFLUX senses whether it is still within its specification and whether, for example, it has been correctly installed.

Fulfils and even exceeds the requirements of VDI / VDE / NAMUR – Guideline 2650 with the following application diagnostic functions:

- Accuracy check
- Gas bubbles
- Electrode corrosion
- Conductivity too low
- Liner damage
- Electrode fouling
- External magnetic fields
- Short-circuited electrodes
- Partial filling
- Changes in flow profile
- Change in conductivity





OPTIWAVE/OPTIFLEX

Radar level measurement – better than ever

OPTIWAVE – reliable measurements even with tank internals, foam and agitated surfaces

In contrast to earlier radar devices, OPTIWAVE, due to its optimised FMCW microwave technology, can achieve a substantially higher dynamic response and bandwidth than is possible e.g. with the pulse technique, thus providing significantly greater application reliability. The higher signal dynamics of OPTIWAVE allow measurement in the most difficult applications.

OPTIFLEX – ultra-stable measurement from 50 mm thin interfaces upwards, for all applications

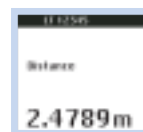
OPTIFLEX has the same handling advantages as OPTIWAVE. In addition, a distinctive feature of the OPTIFLEX is its exact time base which generates needle-sharp signal pulses and in the end allows measurement of thinner interfaces.

Easy operator control and OPTimum range of antennas



Operator control – easier than ever

It has never been easier to start up a 2-wire device. Simply mount the device onto the tank, wire it up and switch it on. OPTIWAVE/OPTIFLEX carries out a self-test, the installation assistant (Wizard) asks a few simple questions to define tank geometry and tank product. That's all. OPTIWAVE/OPTIFLEX has already started measuring!



Up to date with PACTware

OPTIFLEX and OPTIWAVE can be integrated via DTM into all FDT-based operator tools such as PACTware. The well-structured graphic user interface and the PACTware, let you not only change the device configuration, but also carry out complete signal evaluation for service purposes.





From the well...



... to the gas station

Custody transfer solutions from KROHNE

ALTOSONIC V

Ultrasonic multiproduct flowmeter



ALTOSONIC III

Ultrasonic flowmeter for light oil and refined products



ALTOSONIC IV

Ultrasonic flowmeter for gases



Custody transfer with KROHNE - a complete range.

All measuring instruments with high accuracy and repeatability in conformity with OIML guidelines. Metering skids and leakage detection complete the range. More information can be found under www.krohne-oilandgas.com

OPTIGAS 5050 C/5010 C

Mass flowmeter for CNG filling stations



OPTIMASS

Cost-optimised Modbus version



OPTIMASS 7000, the Coriolis mass flowmeter from KROHNE, is now also available in a cost-optimised version with Modbus interface. The complete signal converter is located in the front end.

OPTIFLEX/OPTIWAVE

Nanotechnology for reliable protection against corrosion and fouling



In OPTIWAVE/OPTIFLEX devices with a nanotech coating, submicroscopic particles are applied to the surface to provide resistance to aggressive, corrosive and adherent substances.

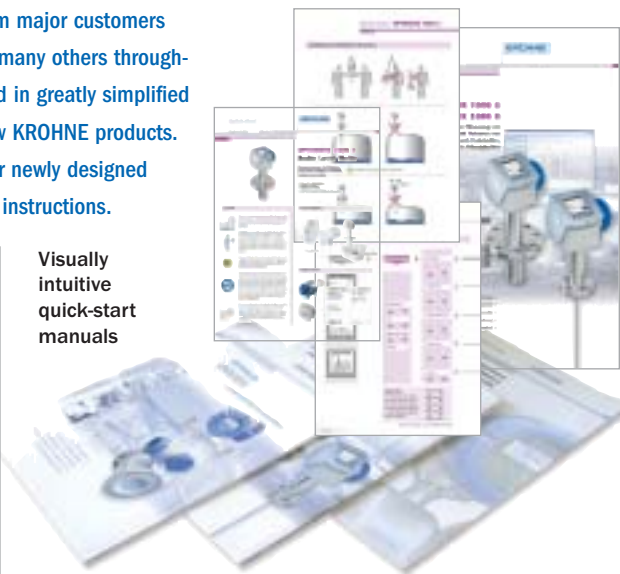
A completely new outfit!

KROHNE adopts a new approach to product documentation

Ideas and suggestions from major customers such as BASF, BAYER and many others throughout the world have resulted in greatly simplified operator control of the new KROHNE products. This is also reflected in our newly designed brochures and installation instructions.



Visually intuitive quick-start manuals



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The Level and Flow Company