



Powerful and cost-effective: the water meter for any challenge.

HYDRUS pays for itself through its outstanding performance and cost-effectiveness: The innovative combination of ultrasonics and integrated communication makes it the ultimate meter for Automatic Meter Reading and Smart Metering. The robust design, reliable electronics, long-term stability and minimized power consumption provide many years of fault-free operation.

In terms of long-term operating and service costs HYDRUS is unbeatable: With a battery life up to 16 years*, it has the lowest power consumption of any ultrasonic meter on the market – and needs virtually no maintenance. HYDRUS can be read as often as required during this period using an AMR system and the integrated power monitor controls efficient long-term operation.

* See data sheet HYDRUS for detailed information on our website.

Smart Metering is on its way, HYDRUS is ready now. Expand your Automatic Meter Reading infrastructure as you wish; the meters need no additional parametrization because HYDRUS supplies smart data right from the start. Make your water consumption transparent, offer your end consumers new tariffs and services for Home Automation and Smart Metering – and profit from the coming opportunities offered in the energy industry. We'll be pleased to advise individually.

Diehl Metering supports you as a powerful partner with a comprehensive range of one-stop services – from meters for water, thermal energy, gas and electricity, innovative system technologies and Smart Metering to energy services such as billing end consumers. As a full-service provider, we help energy utilities and network operators all over the world to optimize processes, cut costs and operate ecologically and sustainably.

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 smart in solutions

DIEHL
Metering

HYDRUS keeps consumption data flowing



Ultrasonic water meter

 smart in solutions



HYDRUS ultrasonic water meter

HYDRUS keeps consumption data flowing



The sustainable use of the precious resource water is an economic and ecological necessity. With its robust design and long-term measuring stability, HYDRUS is reliable and highly accurate under the hardest environmental conditions. Its integrated communication and long-term cost-effective operation also make HYDRUS impressive in a system environment.

Nominal sizes for every task

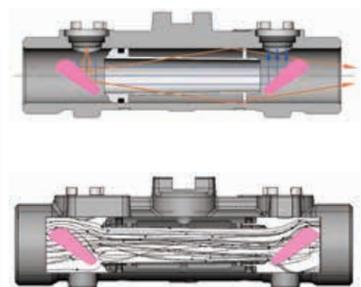
The HYDRUS range covers nominal diameters of DN 15, 25, 32, 40 and 50. All nominal diameters offer maximum precision in the dynamic range up to 1:400 and are approved to MID. Even the DN 50 version of HYDRUS needs only the same short measuring path – for the same accuracy. So HYDRUS provides the right solution for every requirement.

Smart communication as standard

With its innovative combination of ultrasonic technology and integrated communication, HYDRUS makes water consumption transparent – and is ideal as part of an Automatic Meter Reading system: reading is possible in seconds over integrated radio or M-Bus interface and real meter counts create the perfect database for Smart Metering. So if required HYDRUS provides the database for complex consumption profiles in real time.

Robust and precise in sand too

The ultrasonic technology used in HYDRUS is a well-established innovation from Diehl Metering – for reliable and accurate operation even with heavily soiled water and sand; any air in the pipes is not measured. This eliminates measuring errors and manipulation. The UV-resistant housing and the fully encapsulated electronics ensure a long life – also under conditions of high humidity, flooded shafts or pressure surges in the pipe system.



Fault-free measuring accuracy: The static free-beam principle minimizes the noise signals shown in orange and increases the measuring accuracy. Only the water actually flowing through HYDRUS is measured, not the air. HYDRUS is also extremely accurate at flow rates above the nominal flow rate Q_3 – and even measures return flows.

Long-term service friendliness: The dynamic flow design gives dirt particles and scale no chance of settling and interfering with the measurement. The hydrofoil principle of the reflectors ensures a self-cleaning flow profile and creates a homogeneous flow in the measuring channel. So HYDRUS cleans itself and maintains its high functional quality for a particularly long time.

HYDRUS ultrasonic water meter

- **HYDRUS ultrasonic water meter:** High-precision metering and long-term accuracy – even with heavily soiled water.
- **Unlimited system capability:** Equipped with integrated radio or M-Bus interface ex works – for reading in seconds.
- **Ideal for Drive-By and Fixed Network:** HYDRUS sends unidirectionally - he offers thus short transmission intervals by maximum data currency.
- **Accurate for very small or large flow rates:** EN and MID approval in the dynamic range up to 1:400.
- **Battery life up to 16 years*:** Intelligent electronic design for extremely low power consumption – even in radio mode.

* See data sheet HYDRUS for detailed information on our website.