

YOUR SHORTCUT TO INDUSTRY 4.0

Analog Transmitter – SIGNAL 4.0



SMALL ENOUGH FOR BIG TASKS

ANALOG TRANSMITTER SIGNAL 4.0

Ordinary limit switches on flowmeters only initiate an event if a set maximum level is exceeded or a set minimum level is undercut.

New requirements – especially in regards to Industry 4.0 – demand sensors that can do more. Sensors have to capture data from machines and processes before communicating them for further analysis (e.g. for documentation, quality assurance or error analysis).

Our SIGNAL 4.0 has been developed for our variable area flowmeters to **capture and transmit analog flow measurement data** in a constant and permanent manner. The utilized sensor is extremely compact, absolutely reliable and independent of the measured media type.



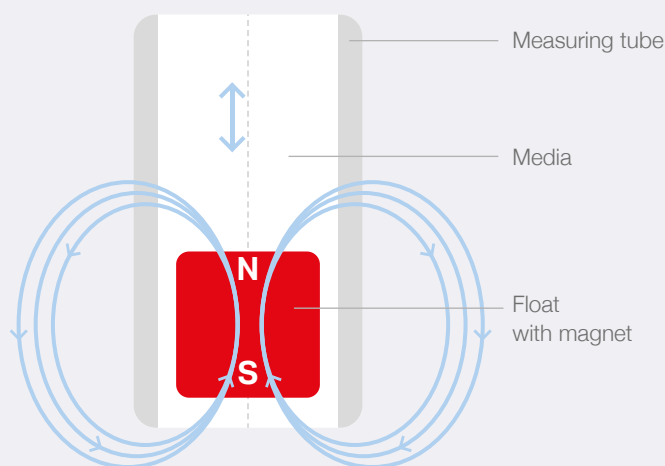
COMPACT DESIGN

Ordinary analog transmitters cannot be attached to every measurement device, due to their size. During the planning stage of the SIGNAL 4.0 already, the focus has been put on the development of an **extremely compact design**. Therefore, the housing (47 x 17 x 9 mm) can be attached to the flowmeters even on the **smallest available space**.

FUNCTIONALITY OF A HALL-SENSOR

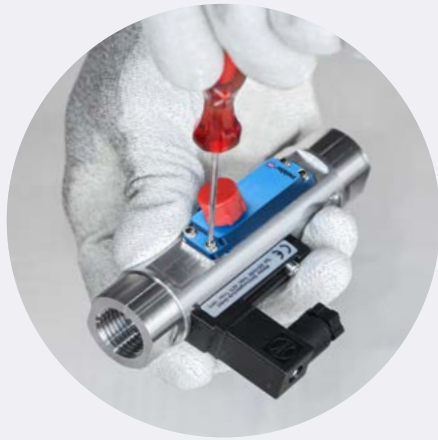
Our SIGNAL 4.0 measures the flow rate by means of **Hall-Sensors**, which are semiconductors that generate a signal, being proportional to the applied magnetic field. When the float inside the variable area flowmeter is moving, the magnetic field will change. The Hall-Sensor in our flowmeters will detect this change and translate it into a flow rate.

The flow rate is shown as analog signal.



SPEAKS WITH ALL DEVICES

Our SIGNAL 4.0 transmits **standard analog signals** (4–20 mA and 0–10 V). Such standard signals allow the communication between devices without worrying about protocols or already existing bus-systems. This feature makes our SIGNAL 4.0 **suitable for all purposes** – an important argument towards a **wide-ranging implementation of Industry 4.0**.



FITS EVERYWHERE

Being suitable for all purposes also means that our SIGNAL 4.0 can easily be attached to all existing Meister flowmeters. Due to its compact design, our SIGNAL 4.0 **can be used for all variable area flowmeters with metal housing.**

Our SIGNAL 4.0 analog transmitters are pre-assembled to the flowmeters by **Meister Strömungstechnik®** at the factory. Hence, there is no re-calibration necessary at the customers' site.

TECHNICAL DATA

ACCURACY	± 10 % of full scale
OPERATING TEMPERATURE	-20 °C to 70 °C
DIMENSIONS	47 x 17 x 9* mm (23 mm)

* without thread

On request, the measurement accuracy can be improved considerably by calibrating each product individually.



PRODUCT VARIATIONS

DUM /	SIGNAL 4.0	DKM-1 /	SIGNAL 4.0
DWM /	SIGNAL 4.0	DKM-2 /	SIGNAL 4.0
RVM/U-1 /	SIGNAL 4.0	DKME /	SIGNAL 4.0
RVM/U-2 /	SIGNAL 4.0	DWM-L /	SIGNAL 4.0
RVM/U-4 /	SIGNAL 4.0	RVM/U-L1 /	SIGNAL 4.0
WY /	SIGNAL 4.0	RVM/U-L2 /	SIGNAL 4.0
		RVM/U-L4 /	SIGNAL 4.0

Other variations are available on request.

MEISTER STRÖMUNGSTECHNIK®

A STRONG BRAND

WITH RELIABLE PRODUCTS

Meister Strömungstechnik® develops, produces and globally distributes flowmeters for industrial applications to measure and monitor liquid- and gaseous media, for over 35 years.

Our products are characterized through outstanding **quality, reliability and longevity**, especially under harsh conditions in nearly every industry.

Thousands of customers and millions of applications worldwide rely on our **masterpieces made in Germany from Meister Strömungstechnik®**.

MASTERPIECES MADE IN GERMANY FOR MORE THAN 35 YEARS

Since 2002, we are **DIN ISO 9001** certified. Of course, we do comply with all relevant norms and regulations, including the UL/CSA certification for most of our products.

Many of our products have additional ATEX certificates, to be used in explosive environments. Maximum customer value is the highest priority of **Meister Strömungstechnik®**.

We constantly invest in product improvements, as well as in further **qualifications and greater performance of our employees**. In that way, we constantly expand and improve our competence level in all relevant areas for success to achieve maximum customer value.

You need expert consultation or support?
We place our services at your disposal.



Meister Asia Pacific Sdn. Bhd.

Suite 11.01, Level 11, Menara OBYU,
4, Jalan PJU 8/8A, Damansara Perdana
47820 Petaling Jaya, Selangor
MALAYSIA

Tel +60 3 7717 4848
Fax +60 3 7717 4701
d.gierlich@meister-flow.com

Here you find more information
about our SIGNAL 4.0:



www.meister-flow.asia