



MARIMEX® ViscoScope®
INLINE VISCOMETER
for improved process quality



Fluid.io

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Our know-how in viscosity measurement is your competitive advantage

Viscosity is our passion. Combined with our extensive know-how, we help you to further **improve the quality of your processes**.

Our customers face global competition and can only continue to be successful if they **properly utilize the competitive advantages** that present themselves.

As a german manufacturer of measuring instruments for viscosity measurement, we offer you a measuring system that we have developed ourselves and that has proven itself in practice, enabling you to **control and optimize the quality of your manufacturing processes**.

For all questions regarding viscosity measurement we are competently at your side as a technology partner and with our worldwide sales network.

Our
experienced
sales team is
looking forward
to your
inquiry!



Benefit from our many years of experience in viscosity measurement.





Increase your process quality and avoid short fall batches

Inconsistent product quality and faulty batches can often be traced back to unnoticed changes in process conditions. MARIMEX® can help you **avoid the resulting losses in sales and earnings**.

Precise measurement technology enables you to achieve higher quality in the process. **Viscosity is an excellent process parameter** for this purpose.

With our ViscoScope® measuring system, you can easily and reliably measure viscosity directly in your process and in real time. **Use the newly generated knowledge to optimize and control your manufacturing process.**



Maximize your yield and save costs

With a inline process viscometer from MARIMEX®, you only use as much raw material and energy in your process as you actually need for the desired product.

Our innovative measuring instrument supports you as a user in **optimal process control**.

You can use the measurement results, for example, to **control the dosing quantities and mixing ratios** or to regulate the temperature of your manufactured product.



Viscosity is an excellent parameter for maximizing process quality.



Bring the test laboratory to the machine

Our measuring system permanently protocols important process conditions at the location of operation for you, which you can use for **documentation and control purposes**. Save a lot of time and bring the laboratory to your machine. This way you **reduce the number of submissions to laboratories** and other testing facilities.



Maintenance-free measurement technology that accelerates your process

Additional measurement instrumentation often leads to plant shutdown and thus complete production downtime, due to planned or unplanned maintenance. With our **ViscoScope® sensor** you take no risk. After the installation you can use the maintenance-free measuring device that is calibrated with special shear-independent calibration oils without additional maintenance. **Your production is up and running at all times with maximum process reliability.**

MARIMEX® SYSTEM FOR INLINE VISCOSITY MEASUREMENT

ViscoScope® Sensors
for various applications

ViscoScope® Transmitter



VS-D250

For batch and continuous processes in almost all industrial applications.

CONVINCING PRODUCT FEATURES

robust stainless steel housing

completely welded

flexible installation positions

precise & reproducible measurement results

suitable for Ex- and Non-Ex areas

VA-300

VA-100



	VA-100		VA-300			
Sensor type	cylinder	sphere	large cylinder	small cylinder	sphere	mini sphere
Viscosity range in mPa·s x g/cm³	0,1...2.500	10...25.000	0,1...2.500	1...25.000	10...250.000	100...2.500.000
Shear rate	~3250 sec ⁻¹	~3450 sec ⁻¹	~3450 sec ⁻¹	~3650 sec ⁻¹	~3800 sec ⁻¹	~4000 sec ⁻¹
Resonance frequency	~520 Hz	~550 Hz	~550 Hz	~580 Hz	~600 Hz	~635 Hz
Material	1.4571 / 1.4404 (316 Ti / 316L) optional: Hastelloy C22, Duplex 2205, Teflon coating					
process connection	Flange (DIN / ANSI) NPT thread Special flange Varivent® Tri-Clamp					
cable length	max. 1.000m /3.300 ft. (shorter cable length for very low viscosities recommended)					
process temperature	from -10°C to max. +250°C from -25°F to max. +480°F			from -40°C up to max. 450°C from -40°F up to max. 840°F		
process pressure	Vacuum up to 64 bar (950 psi) depending on installation			Vacuum up to 450 bar (6.500 psi) depending on installation		
Ex-area (optional)	II 1/2G Ex ia IIC T6...T3 Ga/Gb					
Flow velocity	up to 5 m/s (~16 ft.)		up to 10 m/s (~22 ft.)			

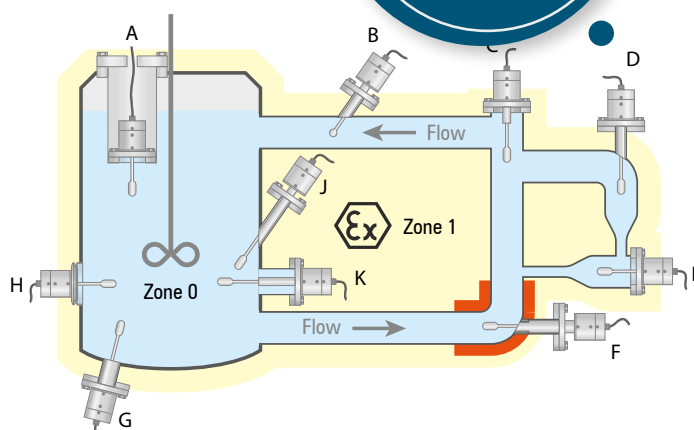
Find further product
details on our website:
www.fluid-io.com

Easy integration and commissioning

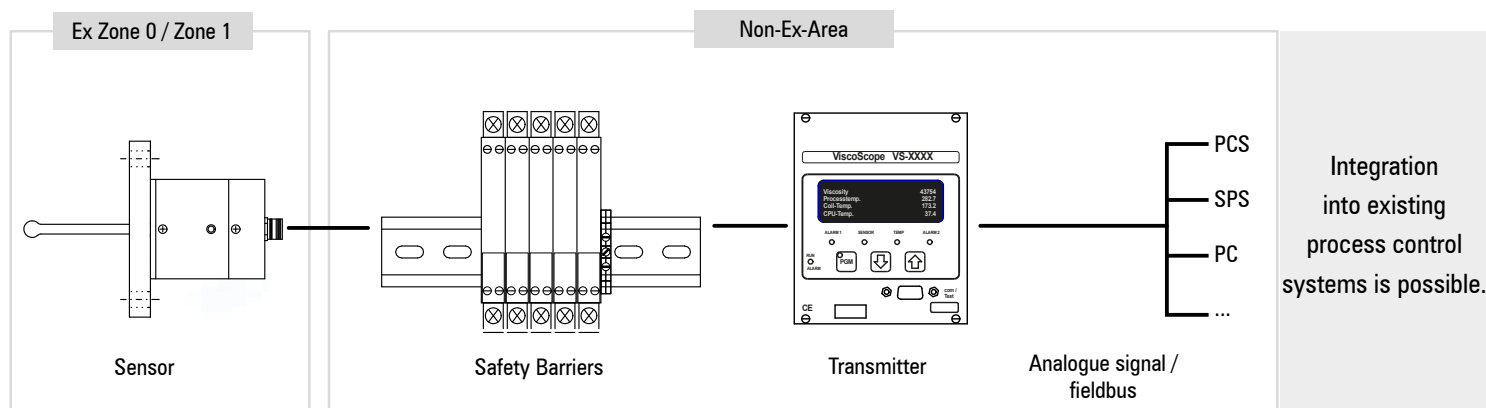
You can integrate the **viscosity sensor with evaluation unit** into your new and existing systems without much effort.

With our suitable accessories, you can easily measure the viscosity in almost any application directly in the process.

Even in the case of a process-related modification of your production line, you can continue to use the sensor system.



Typical installation positions for our measuring device



Typical system design for installation in Ex-Area

Integration
into existing
process control
systems is possible.

Rely on viscosity as a quality parameter -

leave the competition behind you

Together with our application engineers, you will find out how you can use viscosity measurement in your very specific application to increase process quality.

We have already carried out a large number of successful installations of our measuring system for a large international customer base.

Our
experienced
sales team is
looking forward
to your
inquiry!

Chemical Industry



- ✓ Dosing of paints and varnishes
- ✓ Addition of solvents to adhesives and sealants
- ✓ Coatings for paper
- ✓ Optimization of cement mixtures
- ✓ Production of polymer melts

Petrochemical Industry



- ✓ Asphalt & Bitumen Mixtures
- ✓ Control of oil bunkering process
- ✓ Flow measurement in pipelines
- ✓ Measurement of the flowability of lubricants

Pharma & Cosmetics



- ✓ Shape stability of creams & lotions
- ✓ Filling of shampoo & toothpaste
- ✓ Stiffness of gelatin capsules
- ✓ Final viscosity of herbal extractions

Food Industry



- ✓ Blending of binders
- ✓ Addition of raw materials in baked goods
- ✓ Dosing of water in frozen goods
- ✓ Mixing of spices
- ✓ Filling of spreads & sauces
- ✓ Drying of animal feed products



Start using MARIMEX® ViscoScope® today

Inline viscosity measurement with MARIMEX® ViscoScope® takes your processes to a new level.
Get on board now and **be in no way inferior to your competitors.**



... and many
many more
satisfied
customers

Your benefits at a glance



- ✓ You obtain new insights into your production or manufacturing process
- ✓ You avoid faulty production & faulty batches
- ✓ You increase the quality and process safety in your production
- ✓ You monitor the quality parameter viscosity permanently & directly in the process
- ✓ You use a modern, maintenance-free measuring system with very high measuring accuracy & reproducibility

MARIMEX® is the optimal partner for your process

- ✓ We are specialist for inline viscosity measurement with 25 years of experience
- ✓ Our engineers support you in planning, installation as well as in the interpretation of the measured values
- ✓ We offer customer service and support worldwide in many industrial nations



Find a qualified distributor near by you

We work together with selected distributors trained by us.

This enables us to recommend you a local sales partner in many places around the world who can help with questions about inline viscosity measurement with **ViscoScope®** from **MARIMEX®**.

Our Services

We support you from the application-specific consultation to the customer-specific device. You will receive competent support from us during the installation of your measuring device. You and your employees will be trained by us on site in the use of the measuring system and for the interpretation of the measured values.



**ADVICE ON THE
APPLICATION**

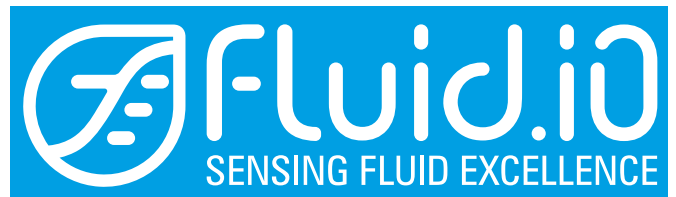


**COMMISSIONING
SUPPORT**



USER TRAINING

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* **MARIMEX®** & **ViscoScope®** are brands of Fluid.iO