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aquasant  

DETECTION

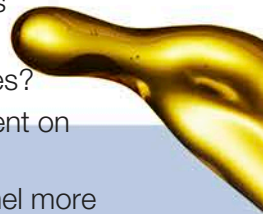


mipromex[®]
for stripping water in
petrochemical storage tanks

Phase detection safely recognized

The Aquasant measuring system with TSS90 pipe probe and mipromex® MAT analog transmitter monitors the product being drained in the pipeline at the outlet of the storage tank or reactor. The high resolution of the pipe probe makes it possible to detect small amounts of organic products in water. The plug & process system does not require commissioning. The impedance measuring principle guarantees reliable measurement of all products.

- Are you stripping water from high tanks manually?
- Would you like to reduce product losses?
- Would you like to optimize the time spent on manual separation?
- Would you like to employ your personnel more efficiently?



Water/petro safely detected in storage tank

- Applications for the universal mipromex® type MAT 4xxx
- Phase detection for stripping water in storage tanks
- Rainwater monitoring for storage tanks with floating roofs
- Product monitoring for clearing of tankers
- Monitoring of the cooling circuit for breach



Even today, phase detection...

... of two non-miscible liquids, as found in petrochemical storage tanks or as a result of a chemical reaction, can be problematic. As a consequence of heavy contamination, small differences in density or emulsion layers, automatic processes can be interrupted by time-consuming manual separation.

Use the high-resolution aquasant® impedance interfacial layer measuring device, the 4xxx series mipromex® MAT and the TSS90 pipe probe with the standardized measuring signal.

For rainwater monitoring of water with electric conductivity from $>100 \mu\text{S}/\text{cm}$ to less than $10 \mu\text{S}/\text{cm}$, the separation process can be greatly improved with the F3 probe electronics MTI!

The self-monitoring evaluation unit MAT ensures safe, fully automatic separation.

Description

The all-rounder interface measuring device type MAT 4190 processes the digital measuring signal transmitted by the measuring electronics MTI. The intrinsically safe power supply of the probe electronics in the connection head takes place via the 2-wire cable.

The display shows either the impulse value, percentage value or the mA signal, as well as the limit value status. An active spreadable analog signal (4...20 mA) corresponding to the measured value is available as an output signal, as well as a potential-free switch relay output.



Overview of application mipromex[®] type MAT 4190

The convenient mipromex[®] MAT 4xxx plug-in module has a simple parametrization structure for an automated liquid/liquid phase detection or the monitoring of waterborne petrochemical products.

- Ready to use from factory (plug & process)
- Highly precise detection
- Independent of phase reversal, product, density and temperature
- High level of safety
- Self-monitoring
- Fail-safe management
- Save time:
 - no wet commissioning
 - short system holding times
- Save money:
 - no need for additional staff
 - no product losses
 - higher system availability

With detection probes of different nominal diameters (DN 50 to DN 150/ANSI 2-4"), it is possible to directly measure the water when stripping from petrochemical storage tanks. For outdoor installations, the saltwater-resistant Exd housing IP68 is used. Customer-specific designs for higher temperatures up to 170°C are possible.

aquasant[®] impedance measurement brings a high level of operational reliability to the automation of separating two non-miscible liquids. This saves time and money from the first separation

Benefit from our many years of experience and request our offer on +41 61 935 5000 or offer@aquasant-mt.com.

