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MMT330 Moisture and Temperature Transmitter Series for Oil

The MMT330 transmitter family offers a range of solutions for demanding moisture in oil measurements.

Features/Benefits

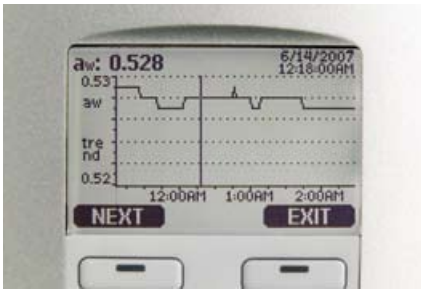
- Continuous on-line measurement of moisture in oil
- Ball valve installation – no need to shut down the process
- Incorporates Vaisala HUMICAP® Sensor – more than 30 years of field performance
- Ten years of experience in measuring moisture in oil
- Excellent long-term stability
- Easy to calibrate and maintain in the field - Compatible with Vaisala HUMICAP® Hand-Held Moisture for Oil Meter MM70
- NIST traceable calibration (certificate included)
- Analog outputs, WLAN/LAN

The Vaisala HUMICAP® Moisture and Temperature Transmitter Series for Oil MMT330 enables fast and reliable detection of moisture in oil. The MMT330 can be used in on-line moisture monitoring and as a control device, allowing separators and oil driers to be started only when needed.

Proper monitoring saves both oil and the environment. With the MMT330 it is easy and economical to monitor the changes of moisture in oil.

Reliable Vaisala HUMICAP® technology

The MMT330 incorporates the latest generation of the Vaisala HUMICAP® Sensor, which is the result of ten years of field experience. It was developed for demanding moisture measurement in liquid hydrocarbons. The sensor's excellent chemical tolerance provides accurate and reliable measurement over a wide measurement range.



The display shows measurement trends, real time data and history.

For diverse applications and demanding conditions

Because of the variety of probes, the transmitter can be used in lubrication systems, hydraulic systems, and transformers.

Indicates the margin to water saturation

The MMT330 measures moisture in oil in terms of the water activity (aw) and temperature (T). Water activity indicates directly whether there is a risk of free water formation. The measurement is also independent of oil type and age.

Water content as ppm conversion

In addition to water activity, the MMT330 can output ppm, the average mass concentration of water in oil. Vaisala has this conversion readily availabe for mineral transformer oil.

For other oils, the oil specific conversion coefficients can be programmed to the transmitter if the water solubility of the oil is known.

Graphical measurement trend and historical display

The MMT330 can be ordered with a large numerical and graphical display with a multilingual menu. It allows the user to monitor operational data, measurement trends and up to 1-year measurement history. The optional data logger with real-time clock makes it possible to generate over four years of measured history, and zoom in on any desired time or time frame.

The display alarm allows tracking of any measured parameter, with a freely configurable low and high limit.

Data collection and (wireless) transfer to PC

The recorded measurement data can be viewed on the display or transferred to a PC with Microsoft Windows® software. The transmitter can also be connected to a network with an optional (W)LAN interface, which enables a (wireless) Ethernet connection.

Versatile outputs and easy installation

The MMT330 provides up to three analog outputs. Galvanic isolation of supply power and analog outputs is also available. For serial interface the USB connection, RS232 and RS485 can be used. In addition, alarm relay option is available.

The Vaisala HUMICAP® Hand-Held Moisture for Oil Meter MM70 is designed for field checking MMT330 transmitters.

The MMT330 has several options for transmitter mounting. Transmitters are delivered pre-configured with all settings installation ready.

The MMT332 probe is installed using a flange. It is for high pressure applications.

The MMT337 probe, with optional Swagelok connector, is ideal for tight spaces with a thread connection. The small probe is designed for integrating into confined spaces with small diameter lines.

The MMT338 is ideal for installations in pressurized processes where the probe needs to be removed while the process is running. The probe depth is adjustable.

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For more information, visit www.vaisala.com or contact us at sales@vaisala.com

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