



WIKATECH

Fluid properties sensors



www.avenisense.com

AVENI | SENSE™

WHO WE ARE

AVENISENSE is the fluidic properties line of the WIKA Group. **WIKA-TECH** passionately creates and produces cutting edge, robust, fluidic properties sensing technologies that make our customer's operations more reliable and profitable, while at the same time reducing their environmental impact. **WIKA-TECH** delivers plug and play sensing modules for the continuous monitoring of liquid and gases. The sensors are designed to be seamlessly embedded in all kinds of higher-level assemblies.

VALUES

CUSTOMERS

Our customers search for sustainability in suppliers. They want to build long-term relationships, we aim to become part of their history and long-term growth.

TECHNOLOGY

We apply advanced technologies and materials to design and manufacture high precision sensors that are cost effective solutions for a broad range of users.



PRODUCTS

devil[®]
sensor



DEVIL is a unique patented sensor to monitor liquid density and viscosity in real time. **DEVIL** covers a wide range of industries (Petroleum, Chemical, Petrochemical...)

**DENSITY
VISCOSITY
TEMPERATURE**

SENSOR BENEFITS



EASY TO INTEGRATE

compact (<10cm)



DURABLE

wetted parts in 316L stainless steel



COST EFFECTIVE



SAFETY IN HAZARDOUS AREAS

ATEX/ IECEx certified (zone 0)

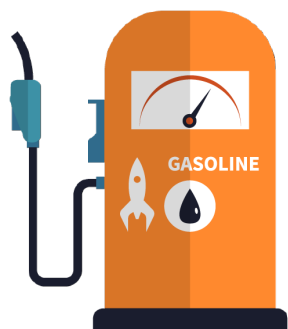
NorthDome[®]
sensor

NORTHDOME is a unique patented sensor to monitor gas density, specific gravity, pressure, temperature and average molecular weight in real time. **NORTHDOME** is ideal to be embedded in all kind of OEM applications.

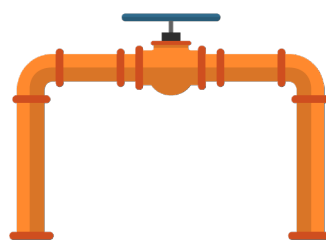
**DENSITY
TEMPERATURE
MOLAR MASS**



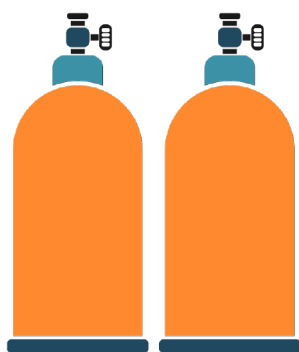
APPLICATIONS



Fuel management



Gas quality monitoring



Gas blending



LPG



Lubricants conditions
monitoring



Chemical blending

MESOSCALE

Technology

The innovative sensor technology for measuring density & viscosity with unmatched compactness and application flexibility

The **MESOSCALE** technology is a patented combination of sensor design, sensor actuation and software. These components are the sensor's backbone to measure density and viscosity of a liquid or density of a gas. The **MESOSCALE** technology captures the benefits of sensor miniaturization, suitable for use in process applications. The heart of the sensor is a fluid wetted single piece, precision micro-machined metallic resonating element.



The MESOSCALE® ultrathin disk of NORTHDOME®, the Gas Density Sensor



The MESOSCALE® oscillating paddle of DEVIL®, the Liquid Density and Viscosity Sensor

MARKET

WIKATECH sensors are applied in a wide range of industries for the continuous monitoring of fluids. Important markets include oil and gas production, hydrocarbon fuel distribution, bio gas production and distribution, lubricant oil quality, alcoholic beverage production, chemical production. At **WIKATECH**, we address customer's requirements to provide the highest value solution.





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AVENI | SENSE™
now a brand of **WIKAI**