OilWear® is a range of online sensors for monitoring particles in fluids. They are based on a patented technology of digital image and video processing, which achieves outstanding and reliable results at low cost.

a2
atten2
advanced monitoring technologies

OilWear® COUNTER SERIES

atten2's OilWear® C100 is an online sensor that quantifies particles larger than 4μ present in fluids, and classifies them by size according to ISO, NAS or SAE standards. This is a low cost sensor designed to be permanently installed on a machine, or to be installed on multiple machines, providing real-time information on contamination of fluids.

OilWear® C100 provides key information to carry out a **predictive maintenance** strategy. The measure of an abnormal amount of particles allows the detection of early stages of machine failure and implementation of corrective actions.

OilWear ® S100 has a fully **modular design**, sand its measure module, , which is the main responsible for the counting and classification of the particles, can be easily integrated into the oil **Condition Monitoring System**, simply ensuring minimum flow conditions in the oil that is monitored.

OilWear® C100

APPLICATIONS

→ Component wash fluids
→ Cutting fluids
→ Aqueous solutions
→ Coolants
→ Water glycols
→ Mineral and synthetic oils
→ Hydraulic and lubricating fluids
→ Fuels

BENEFITS

→ Plug & Play, the sensor offers a standard output with single plug.

→ Output: ISO 4406, NAS 1638, SAE AS4059, etc.

→ Early information on the state of the machine is provided.

→ It prolongs the life of the fluids and cuts machine downtime.

→ It provides rapid, reliable information on the contamination of the fluids.

→ Full integration with SCADA/PC/PLC by means of analogue and digital communications.

→ Self-diagnosis, self-calibration and self-compensation.

→ Possibility of stipulating warning levels.

→ Possibility of stipulating the size ranges of the particles to be counted.

→ Possibility of integrating with OilHealth®, whereby a single sensor provides information on oil degradation and contamination.

SPECIFICATIONS

OilWear® C 100

MEASURED VARIABLES	Particle classification according to: *IISO 4406:1999 // SAE 4059 ISO4406:1987 // NAS 1638*
CALIBRATION	ISO 11171
PRECISION	±1 ISO code
ADDITIONAL VARIABLES	Temperature Sensor Air Bubble detection
MOUNTING POSITION	Vertical
SUPPLY VOLTAGE	24 V
POWER CONSUMPTION	<1A
ANALOG OUTPUT	0-10 V (4–20 mA) [Upon Request]
DIGITAL OUTPUT	RS485 (ModBUS: RTU) Ethernet RJ45 (ModBUS: TCP/IP, FTP, Telnet)
ALARMS	3 configurable alarms per level [Upon Request]
OPERATING PRESSURE	Maximum 20 bar
OPERATING TEMPERATURE	From 0ºC to 70 ºC
VISCOSITY RANGE	To 460 cSt
FLOW RATE	Self-regulated
SENSOR SIZE/WEIGHT	250 x 175 x 115mm / 3.000 gr
HYDRAULIC CONNECTIONS	1/8" BSP (x2)
MATERIALS	Stainless steel
MEMORY	Last 500 samples (measurement and sample image)
PROTECTION CLASS	IP65
CERTIFICATIONS	CE, GL pending

DIMENSIONS

atten2
info@atten2.com
www.atten2.com