

OilWear

SMART SOLUTION BY ATTEN2

SHAPE SERIES

Provides key information for a predictive maintenance strategy based on the oil condition.

Atten2's **OilWear® S120** 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 sensor designed to be permanently installed on a machine, providing real-time information on contamination of fluids.

OilWear® S120 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® S120 has a fully modular design, and its measure module, which is responsible for the counting and classification of the particles, can be easily integrated into SCADA or CMS equipment.



APPLICATIONS

- Hydraulic and lubricating fluids
- Fuels
- Cutting Fluids
- Coolants
- Water Glycols
- Mineral and tic oils
- Component Wash fluids

BENEFITS

- Plug & Play, the sensor offers a standard output with a single plug.
- Output: ISO 4406, NAS 1638, SAE AS4059, etc.
- Early 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 using analogue and digital communications.
- Self-diagnosis, self-calibration and self-compensation.
- Warning and levels setting.
- Size ranges of the particle to be counted setting.
- Added oil degradation measurement technology that provides information about oil degradation and contamination.

SPECIFICATIONS

PARTICLE COUNTING OUTPUT	Particle classification according to: ISO 4406:1999 // SAE 4059 ISO4406:1987 // NAS 1638
CALIBRATION STANDARD	ISO 11171
PRECISION	+/- 1 ISO CODE
ADDITIONAL VARIABLES	Device temperature measurement, Air Bubble Detection, Particle classification by shapes, Oil degradation
MOUNTING POSITION	Vertical
POWER SUPPLY	24 VDC
POWER CONSUMPTION	<150 mA
DIGITAL OUTPUT	RS485 (ModBUS: RTU) Ethernet RJ45 (ModBUS: TCP/IP, FTP, Telnet)
ALARMS	Configurable alarms per level
OPERATING PRESSURE	Máximum 100 bar
OPERATING TEMPERATURE	From -10º- 85º
VISCOSITY RANGE	To 460 cSt
FLOW RATE	Max. 0,5 l/min - Óptim 0,2 l/min
SENSOR SIZE/WEIGHT	88,5 x 60 x 62 500 gr
HYDRAULIC CONNECTIONS	1/8 BSP (x2)
MATERIALS	Aluminium, BK7 and Viton (other materials on request)
INTERNAL DATALOG	Last 1000 samples (measurement) and sample image
PROTECTION CLASS	IP65
CERTIFICATIONS	CE, UL, GL pending

DIMENSION

