

ARGO-HYTOS - A Strong Brand in Fluid Technology

We are striving to become one of the leading worldwide hydraulic system suppliers while remaining a family owned business. In order to make our customer's products better, we want to achieve innovation leadership in all business segments we are and will be active in.

FILTRATION – FLUID MANAGEMENT – SENSORS & MEASUREMENT – FLUID & MOTION CONTROL



This Newsletter includes ...

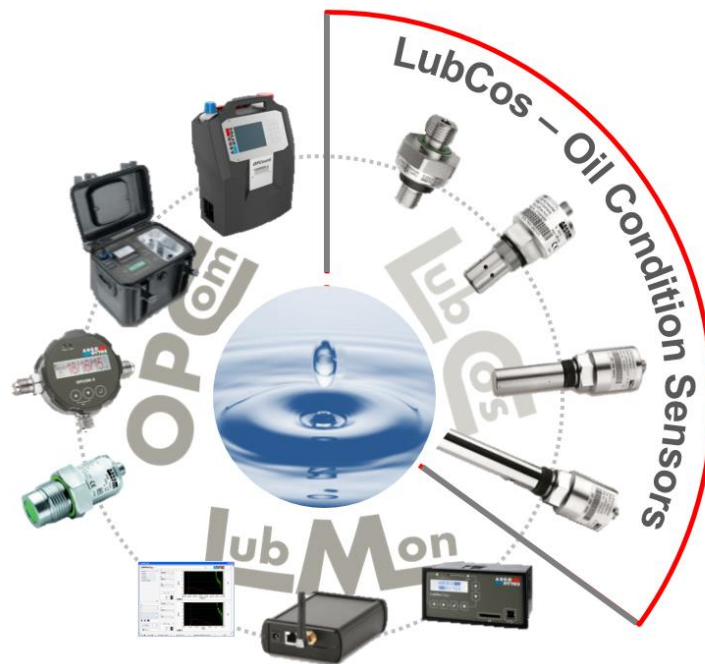
Oil Conditioning Sensors

Particle Measurement

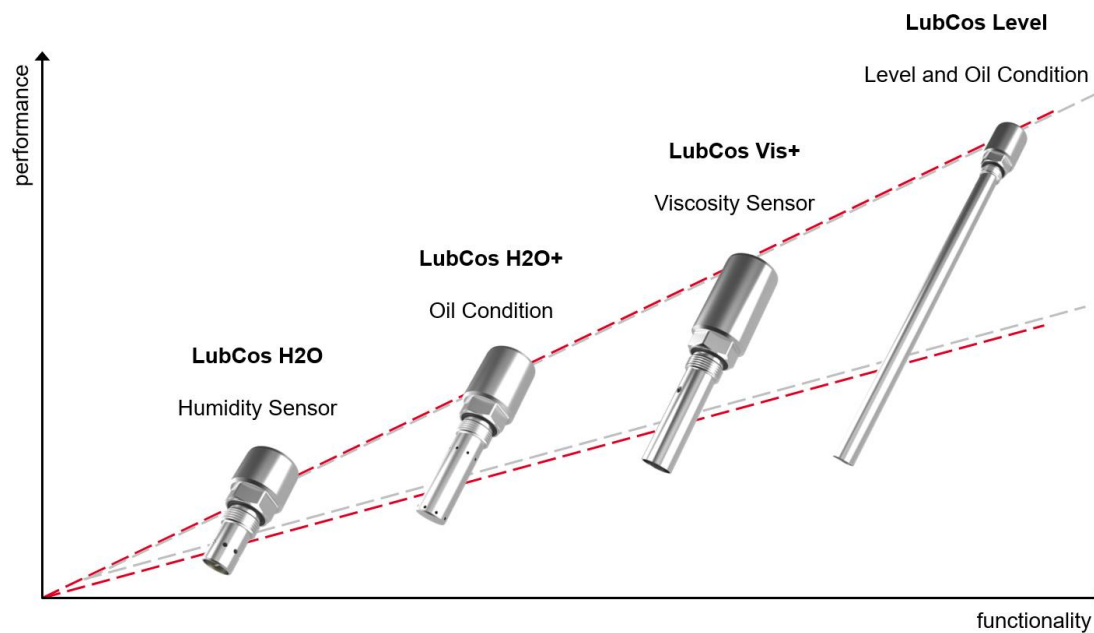
Following some of the product and solution highlights from ARGO-HYTOS.

Oil Conditioning Sensors

Classification



Product Range



LubCos H2O **Humidity & Temperature**

- Temperature -20 to 85 °C
- Relative humidity *) 0 to 100 %
- Hydraulic connection G3/4", max. 50 bar, IP67
- Electric connection 9 to 33 VDC; M12x1; 8 pin
- Interface 2x 4-20 mA, RS232

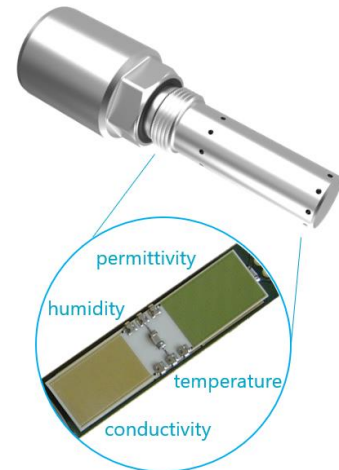
*) absolute humidity optional



⇒ Please consult data sheet "LubCos H2O ; 100.00-EN/US" for further information

LubCos H2O+II **Multi Parameter Oil Condition**

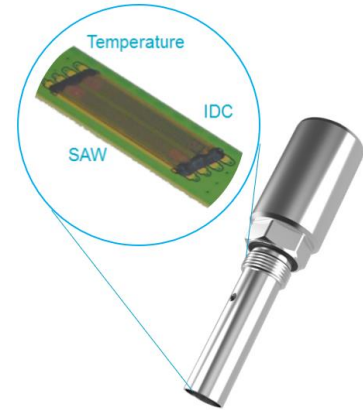
- Temperature -20 to 85 °C
- Relative humidity 0 to 100 %
- Permittivity 1 to 7
- Conductivity 0 to 8×10^5 pS/m
- Hydraulic connection G3/4", max. 50 bar, IP67
- Electric connection 9 to 33 VDC; M12x1; 8 pin
- Interface 2x 4-20 mA, RS232, CAN



⇒ Please consult data sheet "LubCos H2O+ II ; 100.05-EN/US" for further information

LubCos Vis+ **Viscosity and Oil Condition**

- Temperature -20 to 85 °C
- Viscosity 8 to 400 mm²/s
- Permittivity 1 to 7
- Hydraulic connection G3/4", max. 50 bar, IP67
- Electric connection 9 to 33 VDC; M12x1; 8 pin
- Interface 2x 4-20 mA, RS232, CAN



⇒ Please contact us for further information

LubCos Level **Multi Parameter Oil Condition & Level Sensor**

- Temperature -20 to 85 °C
- Relative humidity 0 to 100 %
- Permittivity 1 to 7
- Conductivity 0 to 8 x 10⁵ pS/m
- Level 0 to 100 %
- Hydraulic connection G3/4", max. 50 bar, IP67
- Electric connection 9 to 33 VDC; M12x1; 8 pin
- Interface 2x 4-20 mA, RS232, CAN



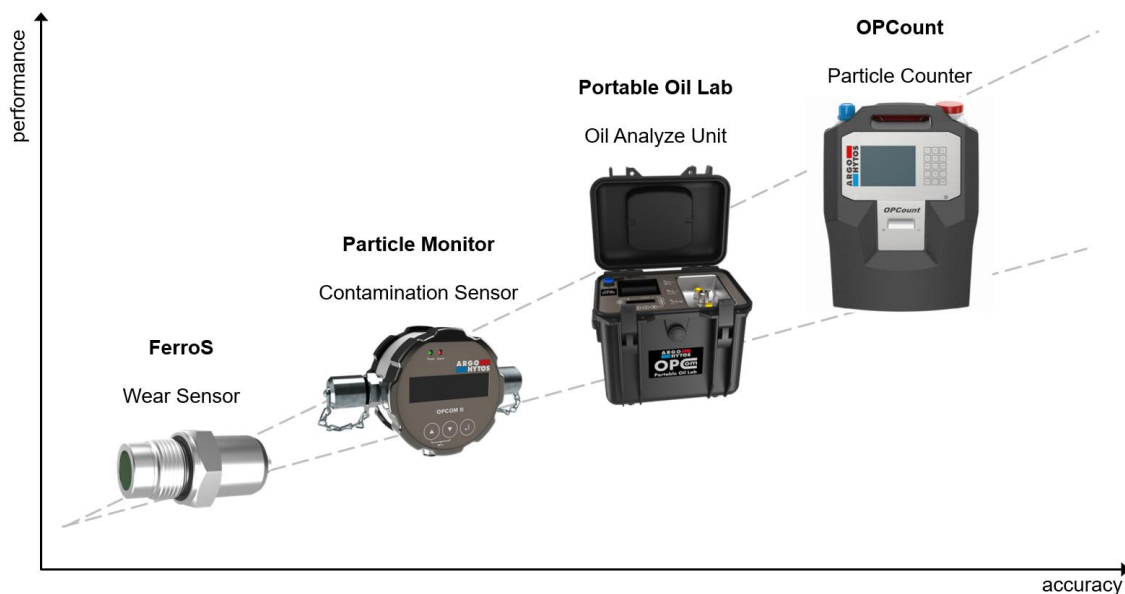
⇒ Please consult data sheet "LubCos Level ; 100.10-EN/US" for further information

Particle Measurement

Classification



Product Range



OPCom FerroS Ferromagnetic Wear Sensor

- Temperature -10 to 80 °C
- Measurement Ferro wear particles
- Hydraulic connection G1", max. 20 bar, IP67
- Electric connection 9 to 33 VDC; M12x1; 8 pin
- Interface 4 to 20 mA, RS232, CAN



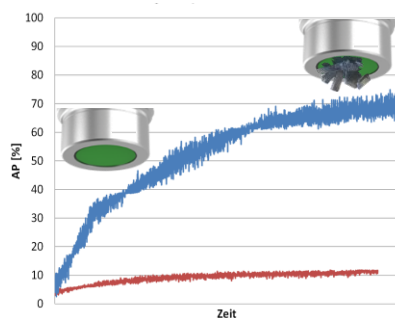
⇒ Please consult data sheet "OPCom FerroS ; 100.55-EN/US" for further information

Feature

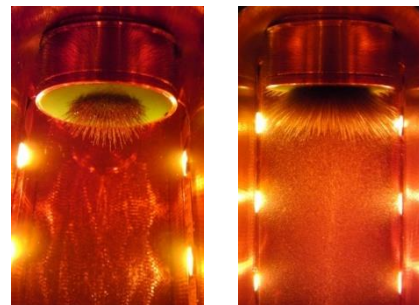
- Continuous monitoring of ferromagnetic wear particles
- Robust against disturbances (air, water, vibration, ...)
- Ideal to monitor gearboxes and heavy machineries

Advantage & Benefit

- Detects wear particles
- Early detection of component damages
- **Cost saving by avoiding breakdown**



signal with and without damage



increase of wear

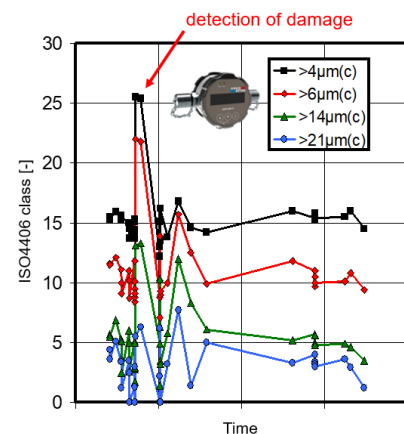
OPCom II Particle Monitor

- Particle classes $\geq 4, 6, 14, 21 \mu\text{m(c)}$
 - Display standards ISO 4406, SAE AS 4059, NAS 1638, GOST 17216
 - Temperature -10 to 80 °C
 - Hydraulic connection G1/4", max. 420 bar, IP 67
 - Flow rate 50 to 400 ml/min
 - Electrical connection 9 to 33 V, M12x1, 8 Pin
 - Interfaces 4 to 20mA, RS232, CAN
- ⇒ Available with and without display
⇒ Phosphate Ester version available



⇒ Please consult data sheet "OPCom Particle Monitor ; 100.51-EN/US" for further information

Application Example



OPCom Portable Oil Lab

- Particle classes $\geq 4, 6, 14, 21 \mu\text{m(c)}$
ISO 4406, SAE AS 4059,
NAS 1638, GOST 17216
- Display standards
- Temperature -10 to 60 °C
• Relative Humidity 0 to 100 %
- Hydraulic connection internal pump max. 10 bar
pressure port max. 320 bar
- Electrical connection internal battery or power supply
• Interfaces USB, SD Card, Wi-Fi (opt.)
• Memory 1,500 measurements



⇒ Please consult data sheet "OPCom Portable Oil Lab ; 100.60-EN/US" for further information



OPCount

Particle Counter for Laboratory and Field Service

- Particle classes $\geq 4, 4.6, 9.8, 14, 21, 38, 68 \mu\text{m(c)}$
- Standards ISO 4406, SAE AS 4059, NAS 1638, GOST 17216, GJB 420A, EI-IP 577, DEF-STAN 91-91
- Hydraulic connection internal pump max. 7 bar
pressure port max. 420 bar
- Electrical connection internal battery or power supply
- Interfaces USB, ext. LubCos sensor



⇒ Please consult data sheet "OPCount ; 100.65-EN/US" for further information



Advantages

- Proven and widespread method with high accuracy
- Easy handling and sampling
- Standardised, easy comparability and trending of measurement results

Application

- Usable for almost all applications like hydraulics, pharmaceutical, quality control, aviation etc.
- The units can be used in a lab or on-site to measure a bottle sample, from a reservoir or on a pressure line

Contact Details, Enquiries and Orders:

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Next Newsletter in January ...

Filtration & Fluid Management