

## **PAMAS S40 GO**

# **Portable Particle Counting System for Water Based Hydraulic**



### **PAMAS S40 GO**

**Compact analysing system  
for hydraulic fluids in the  
off shore oil industry**

**User-friendly operation  
using touch screen with  
graphic display**

The volumetric cell design of PAMAS sensors guarantees the highest accuracy, resolution and best statistical information

Result according to:  
ISO 4406:1999, SAE AS 4059D,  
ISO 4406:1987, NAS 1638,  
GJB 420A, GOST 17216

- Real portability with lab system accuracy
- User can configure the system to their needs in profiles
- Pressurized sensor avoids degassing
- Display and printout provide triple ISO codes, NAS- and SAE cleanliness classes, measurement volumes, and particle numbers
- Highest repeatability and reproducibility
- Password protected user levels
- Storage of more than 500 measurement data sets
- Built-in battery for data backup
- User-friendly download software
- Operates on 90 - 230 V AC (50/60 Hz), or 12 - 30 V DC, or internal battery
- External degassing unit available

# Pamas S40 GO

## Rugged, portable, reliable, -particle counting on the go



The PAMAS S40 GO is designed for field use. It is small and light enough to fit into an aircraft overhead locker. It is rugged and tough and is water tight during transportation.

Incorporating tried and tested PAMAS laser light blockage technology trusted throughout industry for reliability and accuracy.

Pressurised sensor reduces the need for degassing allowing the counter be plugged in and used on line up to 100psi. pressure.

No need to send samples to the laboratory, with a built in liquid pump the PAMAS S40 GO can draw its own samples from a bottle, producing results quickly where they are needed.

The PAMAS S40 GO is simple to operate via the touch screen user interface. A variety of sampling profiles can be created offering choices of Standards such as NAS 1638 and AS 4059.

The number of channels requiring analysis, such as AS 4059 bands A to F, 6 channels or B-F, 5 channels can also be preconfigured.

The sample size and the duration can also be varied and preconfigured.

The operator simply selects the sampling profile from a drop down option list on the touch screen then proceeds by selecting start.

The unit has built in protection from contamination including BACK FLUSH operation to remove over contamination from the system.

Calibration according to ISO 11171:1999, according to NAS 1638 with NIST traceable standards.

Rugged and tough, yet truly portable, including a built in battery for mains free operation.

The PAMAS S40 GO is a compact field instrument for measuring hydraulic fluids used in the off shore oil industry.

The PAMAS S40 GO Laser particle counter is built to meet the demands of the harshest environments.

Specifically designed for the measurement of Water/Glycol hydraulic fluids and is compatible with subsea fluids such as Oceanic HW540, Oceanic 443, Castrol Trans aqua and Niche Pelagic 100.

Intelligent yet simple to operate the PAMAS S40 GO reports results to NAS1638 and AS SAE4059 and ISO cleanliness classes.

AS 4059 special report function for class B to F only. Producing a result printout for these size bands where they are specified.

### Key features

- Online continuous test capability
- Individual bottle sampling
- Portable Light weight and compact
- Rugged and tough
- Microsoft compatible software included
- Built-in printer
- Built-in battery
- 8 variable channels
- ISO 4406
- NAS 1638
- SAE 4059 (A-F)
- SAE 4059 (B-F)

### Applications

Water/Glycol control fluid contamination measurement.

Subsea oil and gas equipment Cleanliness Certification.

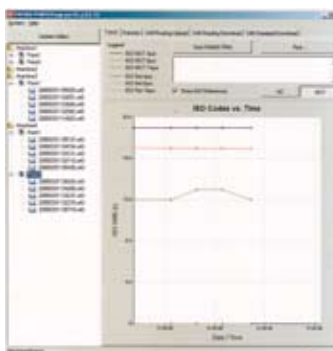
Tried and trusted for flushing and qualification of Christmas trees, HPU's, subsea umbilical's, hydraulic accumulators, valves and control systems. With the online capability the PAMAS S40 GO is ideal for integration in to flushing rigs, offering real time results in NAS1638 and AS 4059.

### Remote Control with PMA Software



*Automatic storage and documentation in readable format. Classification of particle number and size.*

### PAMAS CMDM Condition Monitoring Data Manager



*Display and printout of trend analysis and the numerical and graphical results of single measurements.*

### Technical data

#### Sampling system:

- Wear resistant ceramic piston pump with controlled constant flow.

#### Pressure range:

- From pressureless up to 7 bar (100 psi)

#### PAMAS Volumetric Sensor:

HCB-LD-50/50 Size range:

- 4 - 70  $\mu\text{m}$ (c) (ISO 11171:1999)
- 1 - 100  $\mu\text{m}$  (ISO 4402:1991)
- 1 - 400  $\mu\text{m}$  (ANSI/NFPA)

#### Max. particle concentration:

- 20,000 p/ml at flow rate 25 ml/min at 5% coincidence

#### Controller:

- 32-bit high performance CPU with sophisticated programmable digital domain signal conditioning and 4096 internal channels
- Data printout: 32 column thermo printer
- Data transfer: 8 bit ASCII code through USB port (57600 baud)
- Power supply: 90 - 230 V AC (50 - 60 Hz) 12 - 30 V DC, internal battery (for up to 2h operation) LiCl battery for memory backup
- Weight and Size: Approx. 9 kg 300mm x 140mm x 300mm

9001: 2000



DIN EN ISO 9001:2000  
Zertifikat: 01 100 061898

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