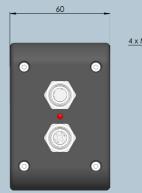
FEATURES

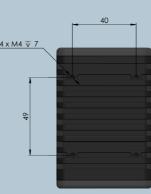
- Oil cleanliness codes: ISO 4406, NAS 1638, & SAE AS4059
- **■** Particles are grouped by micron size in seven categories 4, 6, 14, 21, 38, 70, $> 100\mu$
- The \$120 counts air and gas bubbles and eliminates them from the counts
- The shape recognition software is able to categorise particulate into sliding, cutting & fatigue wear
- Highly accurate sensor capable of self-calibration
- Full integration with SCADA/PC/PLC which can be controlled via analogue or digital instrumentation

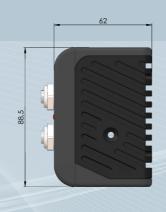
\$120 - DIGITAL IMAGING PARTICLE COUNTER

TECHNICAL INFORMATION

| Accuracy | +/- I ISO code |
|---------------------|--|
| Power Display | 24 VDC |
| Ports | I/8" BSP |
| Max Pressure | 160 Bar |
| Flow Rate | 0.1 - 1.0 l/min |
| Viscosity Limit | 2,400 cSt |
| IP Rating | IP65 |
| Fluid compatibility | Mineral oils, synthetic oils, diesel, skydrol, water glycols other fluids possible - please contact us for more information. |
| Weight | 0.5 Kg |
| Dimensions | 80 x 45 x 45cm |
| Temperature range | -20°C - 70°C |
| Output Options | Modbus RTU (RS485) Modbus TCP/IP Local panel mount indicator Local field mount indicator |









The \$120 sensor is built in to both models of the Particle Pal Pro series.

- I. Particulate and Water
- 2. Particulate, Water and Oil Life option



Filtertechnik Ltd, I Central Park, NG7 2NR Tel: +44 (0) I I 5 9003 600 Email: sales@filtertechnik.co.uk

www.filtertechnik.co.uk

Contact us for more information.



GET A CLEAR PICTURE OF YOUR OIL

The \$120 digital imaging particle counter is a revolutionary sensor capable of counting a broad spectrum of particles, recognising shapes and eliminating air bubbles from the counts. Many years of research and development have gone into this new sensor. Digital imaging particle counting provides engineers with a deeper insight into their oils. The sensor has the ability to measure a broad spectrum from 4 to $> 100\mu$ recognising different shapes of particles which can be grouped into fatigue wear, sliding wear and cutting wear as well as fibres.

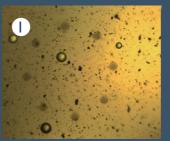
The \$120 is designed for permanent on-line monitoring of oil cleanliness. Alternatively Filtertechnik offer a range of portable oil testers with the \$120 integrated.



The image above is 4mm x 3mm and shows particulate that the human eye can't see

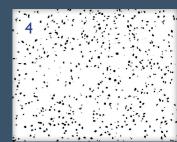
SENSOR OPERATION •











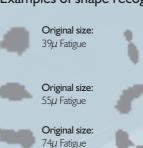
The S120 determines the shape of particles over 20μ . The embedded software developed in conjunction with the IK4-TEKNIKER oil analysis laboratory categorises particles into 4 known shape groupings.

40µ Sliding wear

35µ Cutting wear

Original size:

Examples of shape recognition:



Original size:







Original size:

60u Sliding wear

Original size:

54µ Sliding wear







Original size:

Original size:

36µ Sliding wear





Applications in industry include:



BUILDING



POWER GENERATION



MANUFACTURING





HYDRAULIC

FEATURES

- ISO, NAS and SAE parrticle codes
- \blacksquare 4, 6, 10, 14, 21, 38, 70μ , >100 counts
- Air & Gas bubble counts are eliminated
- Particulate shape recognition:
- Sliding wear
- Fatigue wear
- Cutting wear
- Fibres