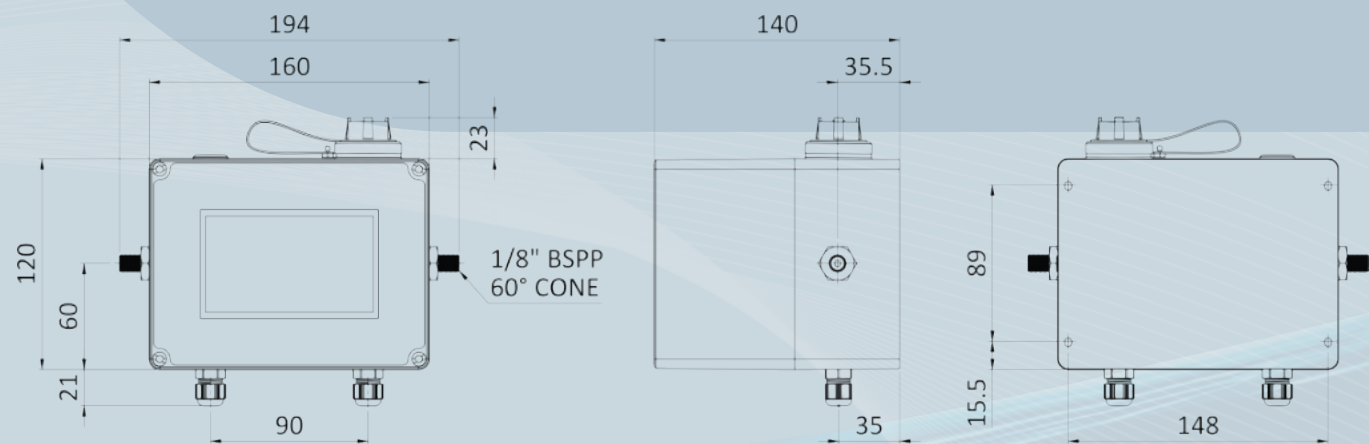


SI20 - DIGITAL IMAGE PARTICLE COUNTER

TECHNICAL INFORMATION

Specification	Detail
Dimensions	(w)160mm x (d)145mm x (h)166mm (6.3" x 5.7" x 6.5")
Weight	1.5kg (3.3 lbs)
Finish	White weatherproof case
Nominal Voltage	24 VDC
Voltage Range	20-28 VDC
Cleanliness standards	SO 4406, NAS 1638, SAE AS4059
Viscosity range	Up to 2400 cSt (if pressure limit is not exceeded)
Fluid compatibility	Diesel & oil (hydraulic, lubrication, mineral, synthetic)
Fluid temperature	0 to 60°C (oils) 0 to 50°C (diesel)
Ambient temperature	0°C to +40°C
Maximum humidity	97% relative humidity, non-condensing
Environment	IP65
Connections	1/8" BSPP, 60° coned
Pressure	0 -5 bar nominal, 100 bar maximum
Flow	Calibrated for 20ml/min.
Certification	Factory calibration certificate CE declaration
Verification frequency	12 months recommended
PC requirements	Windows (with USB port), spreadsheet software (e.g. MS Excel)
QR code compatibility	IOS & Android



Portable particle counter..

The SI20 sensor is built-in to both models of the Particle Pal Pro & Plus series.

Model variations:

1. Particulate
2. Particulate and Water
3. Particulate, Water and oil life option
4. Particulate + Water + Density + Viscosity

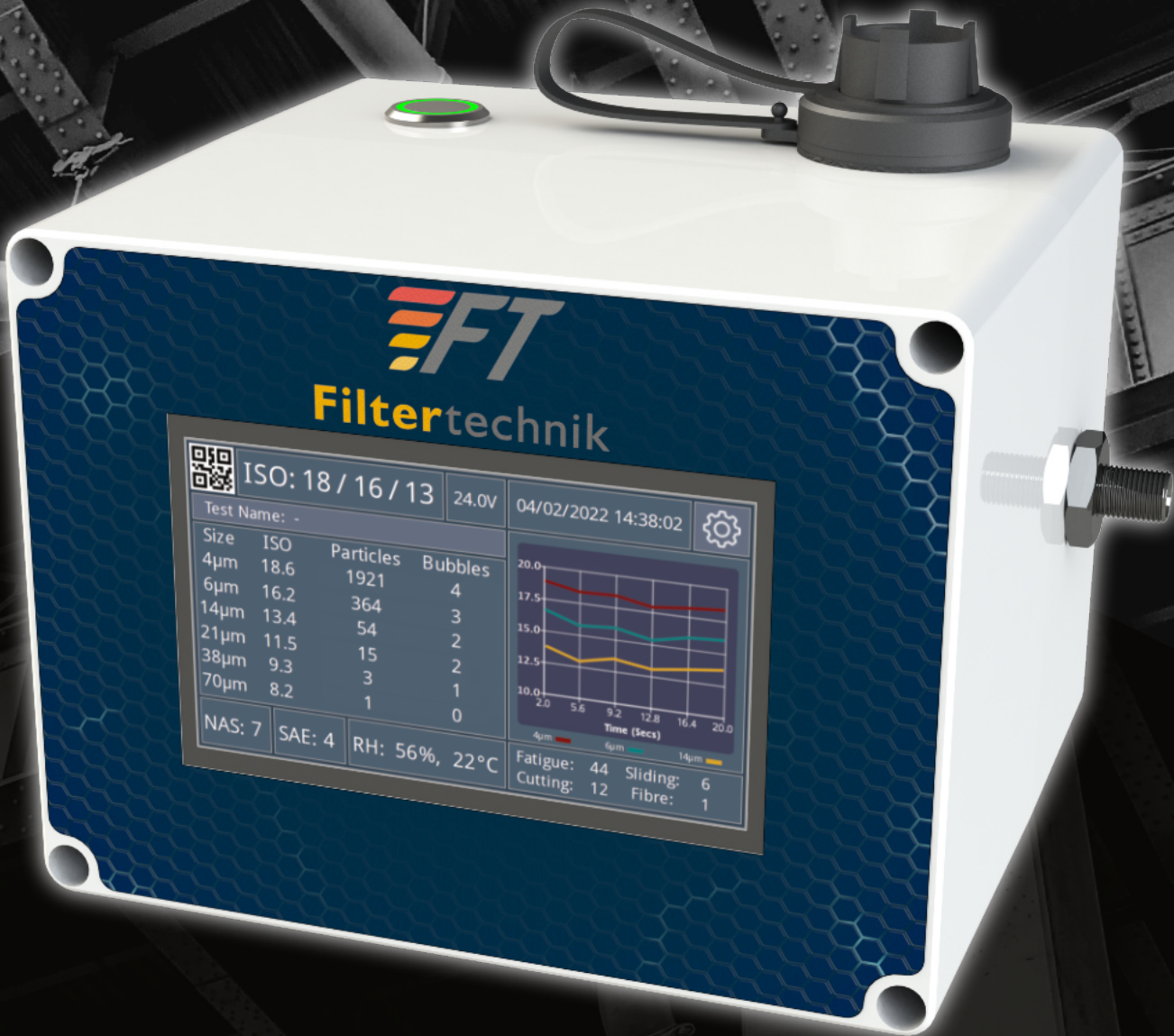


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PARTICLE COUNTING FOR PERMANENT INSTALLATION



SI20-PM - PARTICLE MONITORING ON LIVE SYSTEMS

GET A DEEPER INSIGHT INTO OIL HEALTH

NEW: QR code reporting

DIGITAL IMAGE PARTICLE COUNTER

The S120-PM digital image particle counter is Filtertechnik's solution to advanced online condition monitoring capable of counting a broad spectrum of particles, recognising shapes and eliminating air bubbles from the counts. Digital image particle counting provides engineers with a deeper insight into their oils. The sensor has the ability to measure a broad spectrum of particles ranging from 4µ to > 70µ, which can be grouped into fatigue wear, sliding wear and cutting wear as well as fibres. Filtertechnik refers to this as RCA root cause analysis.

The S120-PM is designed for permanent online monitoring of oil cleanliness with multiple reporting features.

Power button
Illuminated LED

USB port
For retrieving data

Touchscreen display
View and interact with data

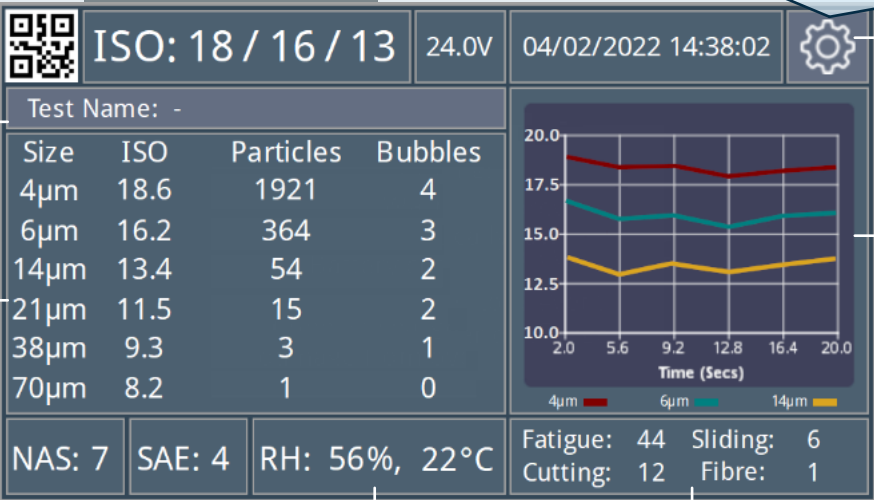
Fluid connection ports
1/8" BSP connection

QR Code Generator
QR Code

ISO 4406
Read out

Test Name
Editable test name

Detailed particulate analysis
Across 6 channels



RH analysis (optional)
Measure water content

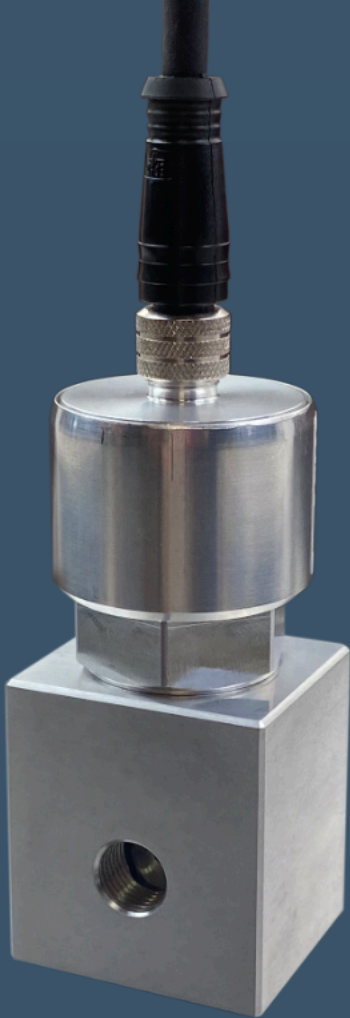
Root cause analysis
In depth analysis

OPTIONAL MOISTURE SENSOR INTEGRATION

Filtertechnik offers a relative humidity inline moisture sensor. The S120-PM has the ability to display the relative humidity values on the touch screen display. The 4-20mA output from the sensor will display as a percentage value (0-100%). Water presence is not desirable in hydraulic fluids and lubricants. A high concentration of water can cause damage and in worst cases premature component failure. For further information on the additional sensor please contact the sales team.

PRODUCT FEATURES:

- Max. Operating pressure 50 bar / 725psi
- Max. Temperature 60°C



QR CODE REPORTING TOOL

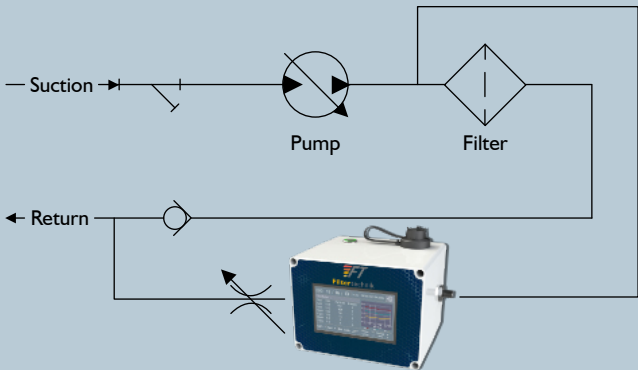
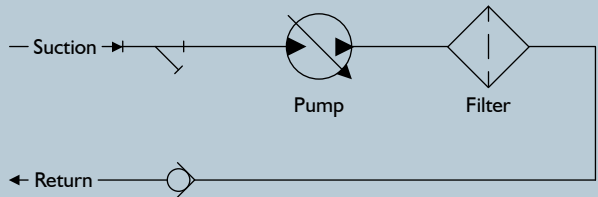
Filtertechnik have developed a QR code reporting tool imbedded in the S120-PM. The user can instantly generate a report that can be viewed and saved to their mobile device, whether they are testing in house testing or out in the field.

Scan QR code to see
example report:



EXAMPLE OF WHERE TO INSTALL

BEFORE & AFTER



Key install points

- Optimum flow rate 20-50ml/m
- Max pressure 160 Bar