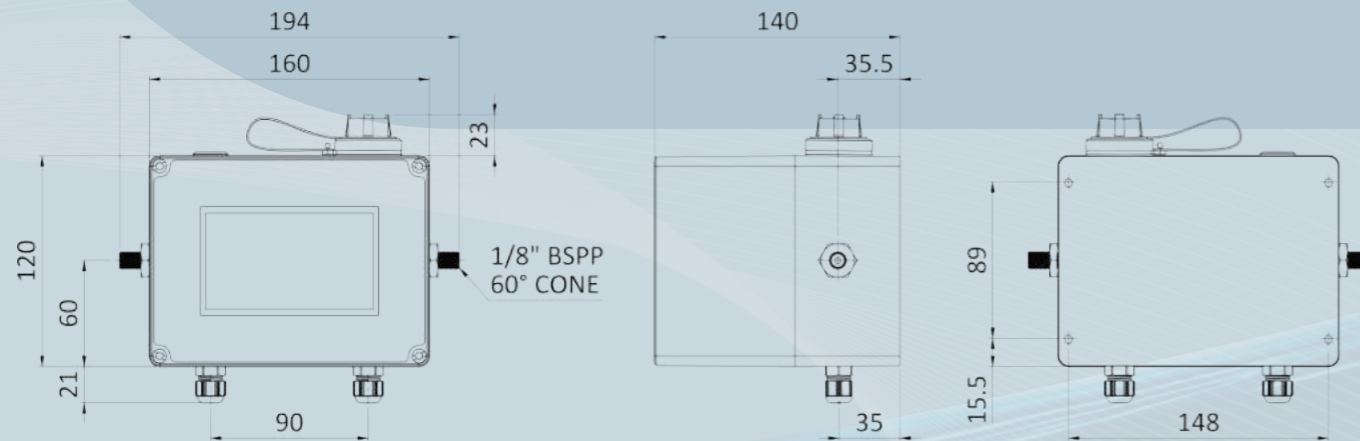


SI20 - DIGITAL IMAGE PARTICLE COUNTER

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



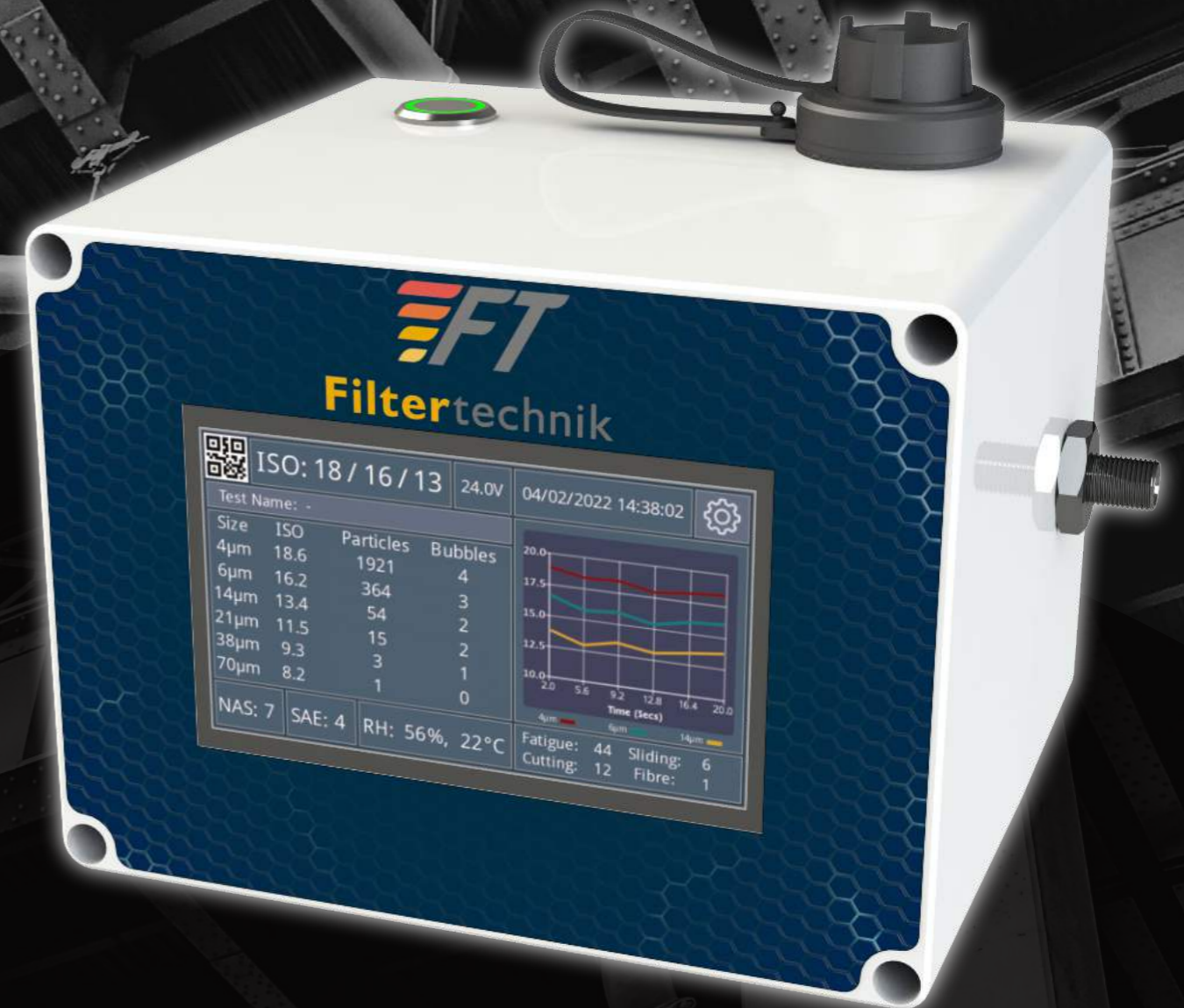
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PARTICLE COUNTING FOR PERMANENT INSTALLATION

FT
Filtertechnik



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.

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:



QR Code Generator
QR Code

ISO 4406
Read out

ISO: 18 / 16 / 13 24.0V 04/02/2022 14:38:02

Test Name
Editable test name

Test Name: -

Detailed particulate analysis
Across 6 channels

Size	ISO	Particles	Bubbles
4µm	18.6	1921	4
6µm	16.2	364	3
14µm	13.4	54	2
21µm	11.5	15	2
38µm	9.3	3	1
70µm	8.2	1	0

NAS: 7 SAE: 4 RH: 56%, 22°C Fatigue: 44 Sliding: 6
Cutting: 12 Fibre: 1

RH analysis (optional)
Measure water content

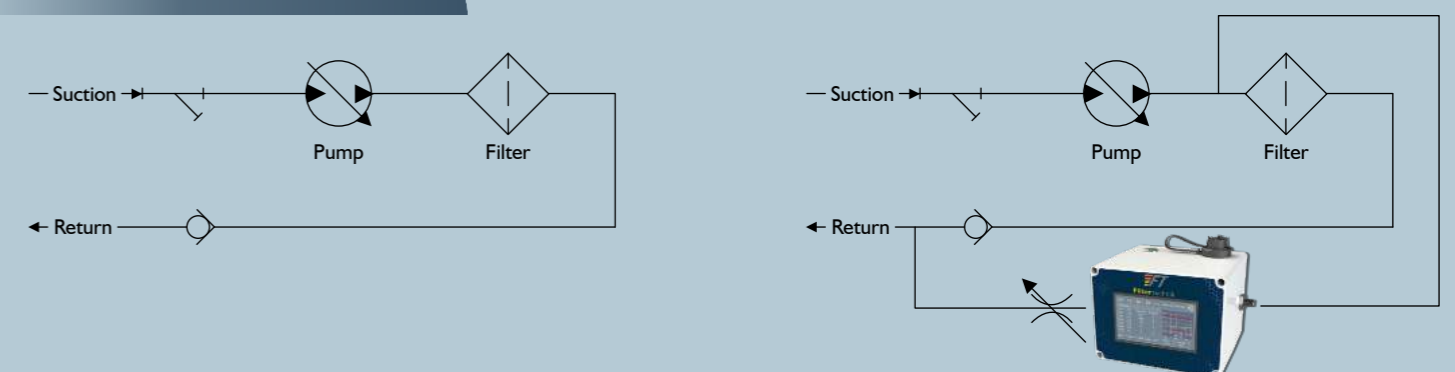
Root cause analysis
In depth analysis

Settings
Display of trending data

Trend data
Display of trending data

EXAMPLE OF WHERE TO INSTALL

BEFORE & AFTER



Key install points

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