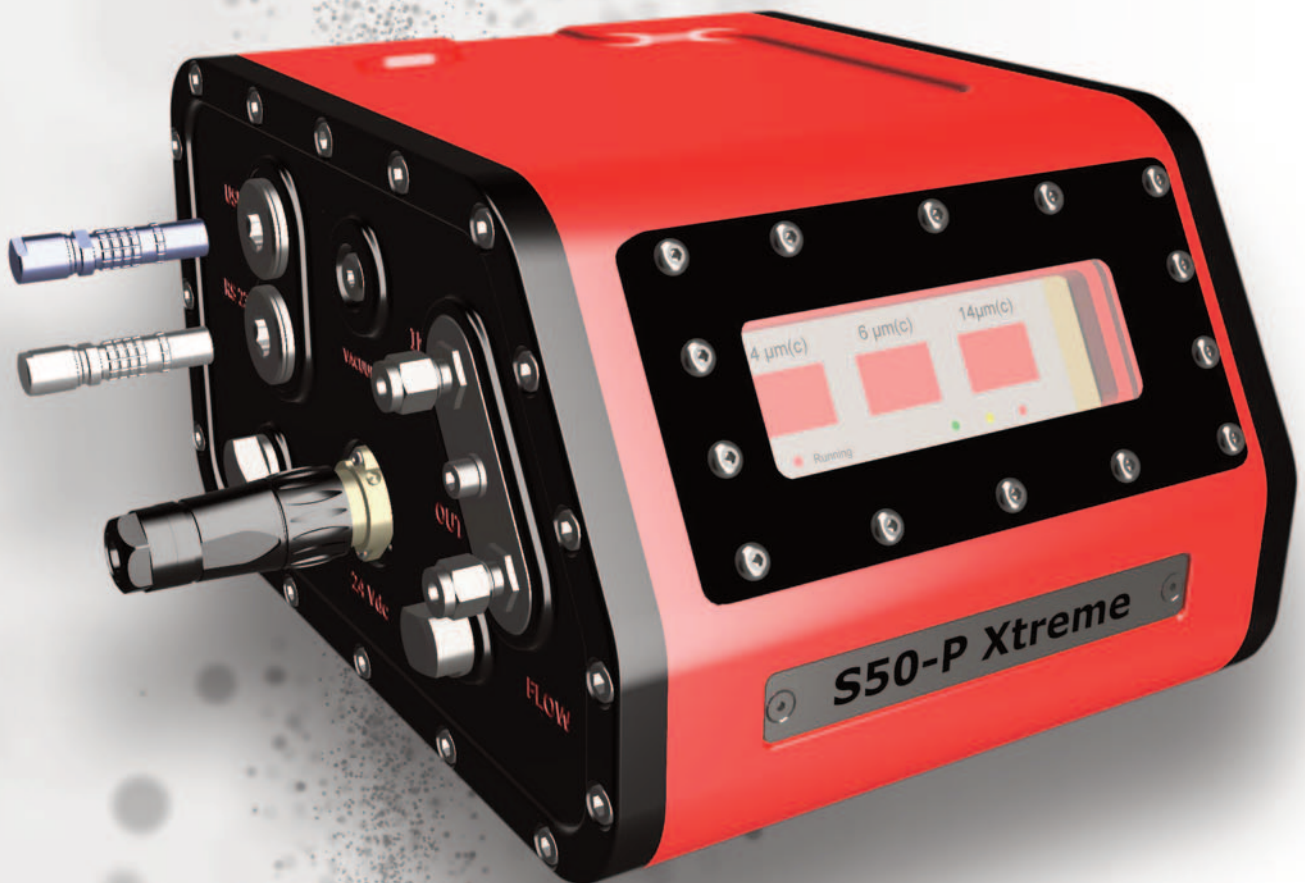


S50-P XTREME



**REYNOLDS
CONTAMINATION
CONTROL**

PURITY THROUGH SCIENCE



INFORMATION

WHY AN XTREME?

After selling our first particle monitor in 1989 we have always been told that particle counters should be handled with care. This has become the industry norm with no manufacturer pushing the boundaries of arduous condition use for particle counting.

A CRADLE FOR EVERY SHOCK

S50-P sensor and pcb board assembly is fitted into a purpose designed stainless steel cradle assembly. Each pcb board is individually assembled onto its own vibration mounts that are then mounted onto the chassis that also has its own independently fixed vibration mounts – Indespension.

INDEPENDENTLY ABSORBED – INDESPENSION

Built for industrial & mobile applications that aren't fixed in their design; with a focus on the arduous running the conditions:

The main chassis is suspended on VA mounts, along with every circuit board mounted on the chassis, creating an Indespension VA for all components mounted in the shell. Stopping wear and tear on cables, fluid joints, circuit parts.

SO WHAT'S THE STORY

- A hard shell to crack
- Hang anywhere you want
- The busy end
- A view to a clean count
- What the Optician prescribed
- What keeps us clear
- We set Alarms
- Does the FEA work
- Its all in the Science
- True partners
- Where do we sign



TECHNICAL DATA

THE HEART OF THE XTREME

At the heart of the S50-P beats the Pamas HCX volumetric sensor:

- Calibrated to ISO 11171:2022
- Cleanliness readings in ISO4406:2021
- Internal pump 10ml/min to 25ml/min
- Pressure XD195 pump 5bar max
- 4mm Fitok fittings - Fuel
- 6mm Fitok fittings - Oil

THE NACRE OF THE PARTICLE COUNTING WORLD

The shell has been designed for ruggedness in mind:

- Aluminium 6082 T6 (HE30)
- Machined from one piece solid billet
- Average wall thickness of 15mm
- Hard anodised to 50micron
- FEA analysis - 5tonne with 0.6mm deflection with a safety of 3:1

HANG ANYWHERE YOU WANT!

At the heart of the S50-P beats the Pamas HCX volumetric sensor:

- The shell has been designed with multiple fixing points based on 8mm / 5/16UNF (USA standard) on body
- Side walls have 10mm / 3/8" UNF fixings
- Side wall mounted on the 10mm/3/8" UNF pins - FEA displayed loaded with 3tonne, safety was still 5:1

THE BUSY END

The service side can be configured lefthand or right hand:

- Each endplate machined from solid
- Amphenol connector IP68 rated optional Deepsea Seamate connector can be fitted
- Inlet fittings Fitok 6mm stainless steel twin ferrule
- RS485 port for connection to POV software
- USB port for connection to Configurator software
- Vacuum test port with Nitrogen prefill option 200mbar
- All fixings A4 stainless steel

THE VIEW TO A CLEAN COUNT

The glass is manufactured from Soda Lima silica float:

- 10mm annealed toughened
- Softening point 715 degrees C
- Working temp 400 degrees C
- Rated to 165Mpa

WHAT THE OPTICIAN PRESCRIBED

The sealing is throughout the Xtreme is based on ROV Deepsea engineering technology:

- Spray path from pressure mechanically tortured
- IP68 rated

WE SET ALARMS

- Leak detection sensor - An optical leak detection sensor is fitted to the S50-P Xtreme for detecting any leaks within the shell.
- Thermostatically controlled - An thermostatically controlled - 40watts heater and fan blower is installed within the cradle to demist the glass.
- Moisture absorption - Silica gel bags are also housed within the cradle for moisture absorption.

DOES THE FEA WORK?

- When you have the resources to test - You test, we based all of our calculations on FEA science and real world testing.
- Load test to be setup - With a loadcell and we will drive a Landcruiser or Defender 110 on top of the unit, record load and carry out particle counts and video.
- Approximate load - 900kg
- Fishtank test

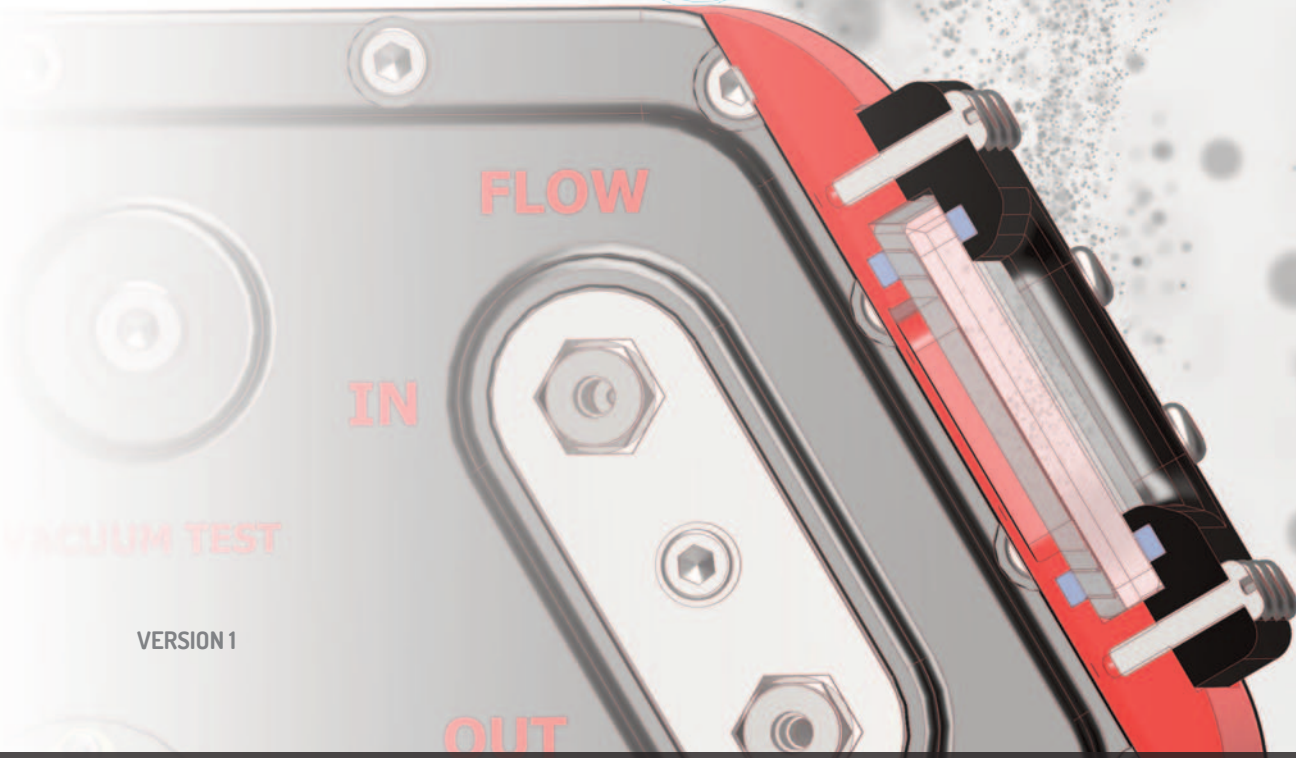
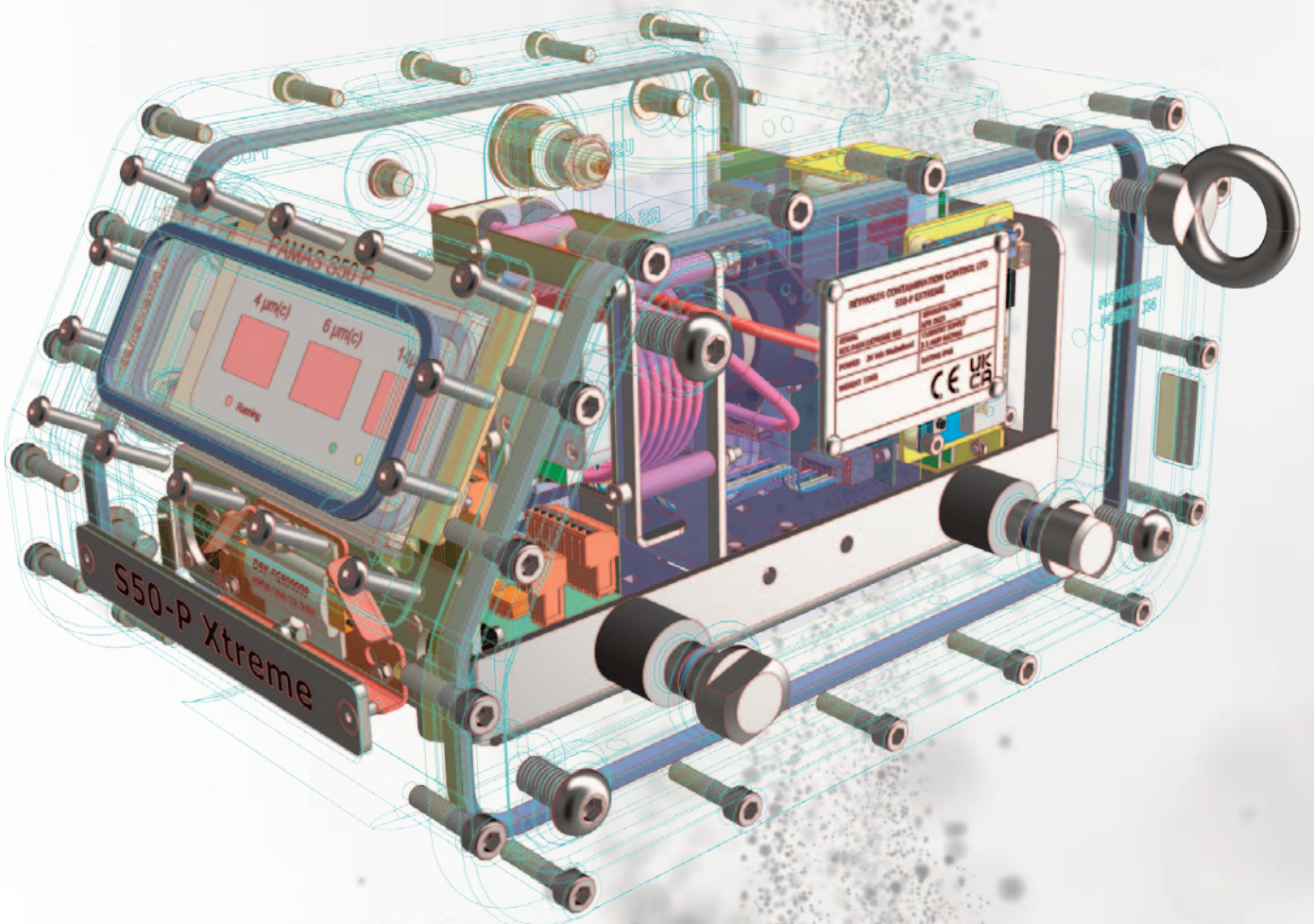
WE HAVE STARTED TO KEEP FISH...

- 24hr test immersion test
- IP68 rated
- EN590 fuel will be sampled
- Results recorded to the Cloud
- S4031 secondary particle counter will be used to qualify results
- No fishes were harmed in this test!!



S50-P XTREME

DIMENSIONS



VERSION 1

