

FLUIDINSPECTIR® BENCHPRO

All-in-One Benchtop Oil Condition Monitor

1. PRODUCT OVERVIEW

The FluidInspectIR® BenchPro is a self-contained benchtop system for Oil Condition Monitoring (OCM) and biodiesel fuel monitoring. Using an integrated multi-sensor approach, it delivers fast, reliable, and accurate on-site analysis of lubricants and biodiesel — covering chemical composition, viscosity, particulate contamination, and wear.



Mains powered and operated via a touchscreen GUI or laptop, the BenchPro auto-pumps fluid samples from a sample bottle. Results are displayed on screen and saved or downloaded to a laptop or server. The dedicated BenchPro software allows further charting, plotting, and analysis. Ready for use in under one minute.

2. APPLICATION MEASUREMENT PARAMETERS

Parameter	Gas	Turb	Hyd	Diel	Gear	Mar	Dies
Oxidation (abs/cm)	✓	✓	✓	✓	✓	✓	✓
Nitration (abs/cm)	✓						
Sulphation (abs/cm)	✓		✓				✓
ipH	✓						
Water (ppm)	✓	✓	✓	✓	✓	✓	✓
TBN (mgKOH/g)	✓	✓					✓
TAN (mgKOH/g)		✓	✓	✓	✓		
KV100C (cSt)	✓	✓				✓	
KV40C (cSt)			✓	✓	✓		
Fuel Dilution	✓						✓

Soot (wt%)	✓						✓
Amine AO (%)		✓	✓				
Phenol AO (%)		✓	✓				
ISO 4406 Class.			✓	✓	✓	✓	
Wear Particle Cls.			✓		✓	✓	

Biodiesel fuel monitoring: FAME%, density and water

3. SUMMARY & TECHNICAL SPECIFICATIONS

Parameter	Specification
Weight	15 kg
Dimensions (W×L×D)	45 × 25 × 15 cm
Power Supply	220V AC
Analysis Time	Less than 60 seconds per sample
Sample Volume	Min 200ml
Connectivity	Integrated modem & cloud connection (optional)
Software	Dedicated BenchPro software