

icountACM20

Aviation/Diesel Fuel Condition Monitoring Lab Unit State-of-the-Art Fuel Contamination Monitoring

The icountACM20 Portable Particle Counter was developed from existing technology for monitoring contamination in AVTur and other hydrocarbon fuels, in accordance with Energy Institute (EI) Method IP 564.

In addition, the ACM can also be used to monitor fuels from existing sampling points in locations from refineries, pipelines, distribution terminals, fuel supply storage.

Features and Benefits

- 2 minutes test time
- Optical scanning analysis and measurement of actual particles and inference to water presence
- Primary outputs: 4, 6, 14, 21, 25, 30 μ counts per ml
- % Volume distribution, via graphical display on handset and printout
- ISO 7-22 in accordance with ISO 4406-1999
- 32 Character two line dot matrix LCD. Full alphanumeric entry facility on keypad
- Access up to 300 saved test
- The instrument shall be certified as being calibrated with a working standard test dust suspension verified against an ISO 11171 secondary calibrated master APC.
- Re-calibration every 12 months by a dedicated Parker Service Center
- 420 bar Max. Working Pressure
- +5° C to +80° C
- Interface via RS232 (USB serial cable to RS232 option available)
- On-board rear mounted pump for lab sampling
- On-board battery and carry case with wheels (13 kg total weight)
- 12v DC input, 6 "D" cell batteries or rechargeable battery pack
- Integrated 16 column printer for hard copy data
- Complies with all relevant EC declarations of conformity
- Integrated Mounted Pump:
 - Powered directly from ACM20
 - Direct sampling from fuel sample bottles or tank via 3 meter inlet suction tube
 - Incorporated double speed flush and test sequence
 - Managed flow rate/correct volume sample as per IP 564 test method



Applications

- Fuel Testing Laboratories - DEFSTAN 91-91 Issue 6
- Distribution Terminals/Hubs: use on receipt and outbound supply. Also provide checks for filtration performance, tank cleanliness and product quality
- Storage: reduce settling time by monitoring to determine if dispersed contamination are below acceptable levels
- Airport Fuel Farm: monitoring of fuels into storage, through fuel farm, hydrant system and during uplift into wing
- Oil and Gas Platforms: monitor filtration performance, system cleanliness and quality of delivered product

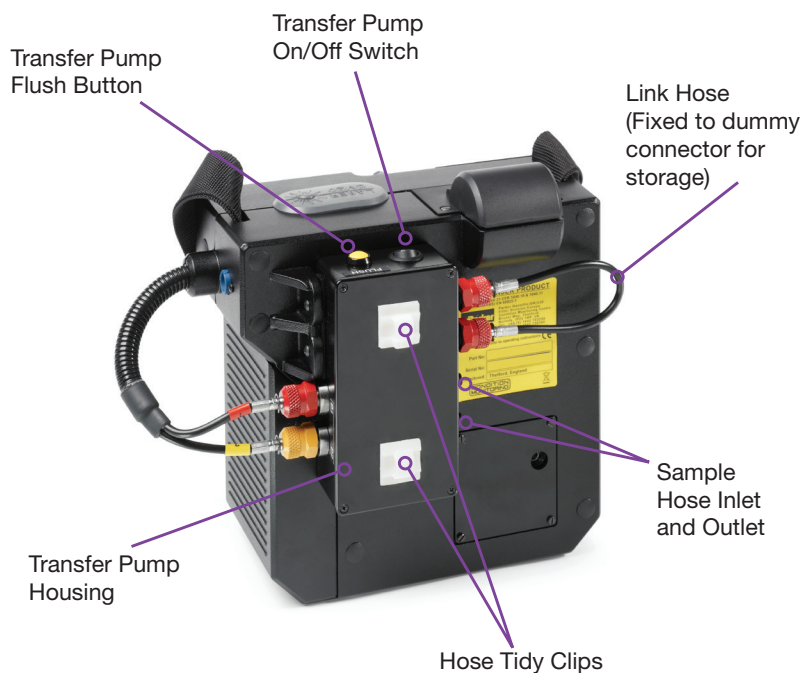


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Specifications

- **Construction:** ABS structural foam and injection moulded case
Hand-held display - ABS
Keypad fluoro silicone rubber
- **Mechanical Components:**
Brass, plated steel, stainless steel and aluminium
- **Seals:** Fluorocarbon
- **Hoses:** Nylon (Kevlar braided microbore). Stainless steel armoured ends
- **Flow Rate:** 25 - 28ml/min (dictated by CMP) 100ml/min with additional flush button
- **Fluid Compatibility:**
Hydrocarbon Fuel, Mineral Oil.
For other fluids consult Parker
- **Fuse:** 1.25 amp fast blow fuse included for overload protection (spare supplied)
- **icountACM20 Technology:**
Patented flow cell, light obscuration
- **Coincidence:** 40,000 particles per ml
- **Viscosity Range:** 1 -100 centistokes
- **icountACM20 Weight:** 17.6 lbs.
- **Monitor Carrying Case:** Astra Board case
- **Carrying Case Weight:** 11 lbs.

icountACM20 - Rear View



Input Power Socket (note that you will have to remove the plastic dust cap to access the 12Vdc power socket)

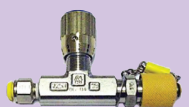
A fast blow 1.25A fuse and the RS232 connection are located behind the removable cover plate. The RS232 interface is provided to download all test data stored in the instrument.



Field Monitoring

For use in non-hazardous areas, the icountACM20 is designed for online sampling of hydrocarbon fuels, utilizing existing "quick connect" sampling points such as the Millipore Adaptor.

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Part Number	Description		Part Number	Description	
ACM202024US ACM202024UK ACM202024EU	icountACM20 Portable Particle Counter with US,UK or EU Plug		ACC6NE023	UK Battery Charger	
ACC6NE008	UK Power Supply		ACC6NE024	EUR Battery Charger	
ACC6NE009	EUR Power Supply		ACC6NE025	US Battery Charger	
ACC6NE010	US Power Supply		ACC6NW003	Waste Bottle	
ACC6ND000	1m Process Cable Assembly		ACC6NE013	Re-Chargeable Battery Pack Assembly	
ACC6NE027	2m Process Cable Assembly		ACC6NE006	Downloadable Software	
ACC6NE029	Throttle Kit		ACC6NE019	Carrying Case for ACM202024	
ACC6NE015	Printer Paper 5 Rolls		ACC6NE028	Carrying Case for ACM202032	
SERMISC067	500ml Verification Fluid		ACC6NW003	Vapor/Waste Bottle	
			ACC6NE014	Printer Ribbon	