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# Inline Particle Monitor – iCountPD

### Whart t#BLP DR12115240



The Parker iCountPD is a highly compact, permanently mounted laser detection particle size monitor that enables continuous monitoring of contamination levels in hydraulic and fluid circuits. Capable of communicating results in ISO4406 / AS4059 or NAS1638.

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## **Technical Specifications**

Port Type: M12, 12-pin plug connector

Brand: Parker
Signal Output: CAN-bus (J1939)

Division: Hydraulic & Industrial Process Filtration Division

EMEA

n/a

No

Industry: Industrial & Chemical Processing, Industrial Manufacturing Equipment, General Industrial

Indicator Type: No Display on unit

ATEX Specifications

Met:

Housing Material: Stainless Steel
For Fluid Type: Mineral Oil
Options: Moisture Sensor
Product Type: Condition Monitor
Technology: Filtration, Hydraulics

Limit Alarm Relay

Included:

Product Style: Particle Detector/Counter
Operating Pressure: 30 to 6000 psi, 2 to 420 bar

Flow Rate: 60 L/min
Port Size: 06L EO 24° cone

Port Type: M12, 12-pin plug connector Operating 41 to 140 °F, 5 to 60 °C Temperature:

▲ Safety Warning

Maximum Fluid
Temperature:

Minimum Fluid
Temperature:

5 °C

Operating Humidity: 5 to 100% (RH)
Sensing Method: Laser
Accuracy: +/-1 ISO code
Electrical
Requirements: 9 to 40 VDC

Communication Interface:

Signal Output: CAN-bus (J1939)
Cycle Time: 30 second
Specifications Met: CE Certification

Ingress Protection Rating:

Materials of

Construction: Housing: Stainless Steel, Stainless Steel

RS232

Seal Material: Fluorocarbon
Body Material: Brass

For Fluid Type: Mineral oils and petroleum based fluids

 Weight:
 1.9 kg

 Height:
 114 mm

 Length:
 135 mm

 Width:
 115 mm



eanliness plays a critical role in the performance and reliability of industrial equipment. Fluids with high levels of contamination iculate matter can damage system components, such as pumps tuat 🛣 or servo valves, leading to shorter maintenance eu downtime, and increased costs.

Home
The ICountPD from Parker is a highly compact, permanently mounted laser detection particle monitor designed for continuous monitoring of Foot amination and solid particulate levels in hydraulic fluid systems. The device represents the most up to date technology in solid particle ination analysis and serves as a cost-effective solution to fluid management and condition monitoring in applications ranging from construction machinery, to industrial plant equipment, to test rigs.

Support
The CountPD is available in three configurations to meet the unique requirements of customers' applications. Options include:

Standard iCountPD – The standard iCount PD is designed for test stand, flushing skids, filter carts and other industrial applications. Industries

iCountPDR – The iCountPDR is designed for mobile equipment or any outside use other than hazardous environment. Services 5

iCountPDZ - The iCountPDZ is suited for applications that require a ATEX Zone II safety such as off-shore platforms or any other hazardous Solutions ent. For Zone I applications, the standard iCountPD can be used within a NEMA7 enclosure.

Whitereston Buy models feature an LED display, which uses three sets of lights for the indication of ISO 4406 / AS4059 and NAS1638 code figures. Individual code lights will trigger based on the customer settings. A moisture sensor is an option that can be included when specifying the icountPD. The moisture sensor reports on the saturation levels of the fluid passing through the sensing cell. The output is a linear scale, reporting within the range of 5% saturation to 100% saturation

Increased flexibility is provided by an intuitive flow control device that fits on the downstream (outlet) side of the icountPD. The device is fitted with a differential pressure valve that adjusts the system flow to a range inside the icountPD specifications. The flow control device will operate correctly between 10.3 bar (150 psi) and 200 bar (2900 psi) and the return back to an open system of 0 bar.

For portable particle monitor devices, Parker offers the iCount LaserCM and the iCountOS.

For additional information, consult the iCountPD documentation in the "Product Support" tab.

Markets:

- Agriculture
- Construction
- Oil and Gas
- Power Generation
- Marine
- Mining
- Forestry
- •Industrial Plant
- Pulp and Paper

#### Applications:

- Deck and mobile cranes
- Firefighting equipment
- Forwarders
- ·Hydraulic presses
- Excavators
- Harvesters
- Waste balers
- ·Reach stackers
- Wheeled loaders
- Drilling equipment Industrial power units
- Airplanes
- Refineries
- Test rigs
- ·Flushing stands
- Wind turbines

#### Benefits:

- •Enables continuous monitoring of contamination levels in hydraulic fluid systems. Dirty fluid can then be replaced and/or cleansed, leading to improved system performance and efficiency
- •Independent monitoring of system contamination trends allows service personnel to optimize maintenance schedules and diagnose mechanical problems with equipment and machinery
- ·Compact, portable design provides ease of installation and use
- •Particle monitor is inline and can be utilized while machinery is in operation, ensuring system uptime

- ·Warning LED or digital display indicators for Low, Medium and High contamination levels.
- ·Visual indicators with power and alarm output warnings.
- ·Moisture %RH indicator (optional).
- •Fuel, Hydraulic and phosphate Ester fluid compatible construction.
- Self diagnostic software.
- •Full PC/PLC integration technology such as: RS232 and 0-5Volt, 4-20mA, CAN(J1939) (Contact Parker for other options).
- Set up and Data logging support software included
- •Online Flow Range via System 20 Inline Sensors (Hydraulic systems only): Size 0 = 6 to 25 L/min (Optimum Flow = 15 L/min) Size 1 = 24 to 100 I/min - (Optimum Flow = 70 I/min) Size 2 = 170 to 380 L/min - (Optimum Flow = 250 L/min)
- •Temperature: Ambient storage temperature -20°C to +40°C (-4°F to +104°F); Environment operating temperature +5°C to +60°C (+41°F to +140°F); Fluid operating temperature +5°C to +80°C (+41°F to +176°F)

### CAD Drawings + Files





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Where to Buy

Portable Particle
Portable Particle
Monitor – iCount
Monitor – iCountOS
LaserCM

IcountBS Plus - Bottle Sampler Portable Filtration Cart / Trolley – 10MFP Series

Online Fluid Condition Sensor (FCS)



**Parker Sales Company UK** 

psc.uk.webform@support.parker.com +44 (0)1926 317878

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