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# Inline Particle Monitor - iCountPD

### WPharet t#BLP D12225110











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**

Brand: Parker

Port Type: Deutsch DT Series

Division: Hydraulic & Industrial Process Filtration Division

EME

Signal Output: CAN-bus (J1939)

Indicator Type: LED

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

ATEX Specifications

Met:
Housing Material:
ABS
For Fluid Type:
Mineral Oil
Options:
n/a

Product Type: Condition Monitor
Technology: Filtration, Hydraulics

Limit Alarm Relay Yes Included:

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

Flow Rate: 60 L/min

Port Size: M16 x 2 hydraulic test points

Port Type: Metr

Operating 5 to 60 °C, 41 to 140 °F Temperature:

Maximum Fluid
Temperatur

Minimum 5 °C

Operating Fig. Later
Sensing Method:
Accuracy:
Electrical
Requirements:

5 to 100% (RH)
Laser
+/-1 ISO code
9 to 40 VDC

Communication RS232

Interface: RS252
Signal Output: CAN-bus (J1939)
Cycle Time: 30 second

Ingress Protection

Specifications Met:

Rating: Materials of

Construction:
Seal Material:
Body Material:
Brass

ABS, Housing: ABS
Fluorocarbon
Brass

For Fluid Type: Mineral oils and petroleum based fluids

**CE Certification** 

 Weight:
 1.3 kg

 Height:
 155 mm

 Length:
 182 mm

 Width:
 85 mm

**⚠** Safety Warning

# Item Information

It is the leanliness plays a critical role in the performance and reliability of industrial equipment. Fluids with high levels of contamination included in the performance and reliability of industrial equipment. Fluids with high levels of contamination included in the performance and reliability of industrial equipment. Fluids with high levels of contamination includes a support of the performance and reliability of industrial equipment. Fluids with high levels of contamination includes a support of the performance and reliability of industrial equipment. Fluids with high levels of contamination includes a support of the performance and reliability of industrial equipment. Fluids with high levels of contamination includes a support of the performance and reliability of industrial equipment. Fluids with high levels of contamination includes a support of the performance and reliability of industrial equipment. Fluids with high levels of contamination includes a support of the performance and reliability of industrial equipment. Fluids with high levels of contamination includes a support of the performance and reliability of industrial equipment. Fluids with high levels of contamination includes a support of the performance and reliability of industrial equipment in the performance and reliability of industrial equipme

Home
The iCountPD from Parker is a highly compact, permanently mounted laser detection particle monitor designed for continuous monitoring of products in an advantage of products. The device represents the most up to date technology in solid particle contamination 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:

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** 

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.

Whiters.to. 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 stackersWheeled loaders
- •Drilling equipment
- Industrial power units
- •Airplanes
- •Refineries
- •Test rigs
- Flushing stands
- ·Wind turbines

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### 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

#### Features

- •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 l/min (Optimum Flow = 70 l/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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# HRelated Products











Where to Buy

Portable Particle Monitor – iCountOS Portable Particle Monitor – iCount LaserCM

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

Online Fluid Condition Sensor (FCS)



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