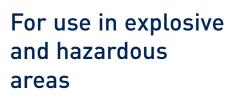
# **icountPD Z2** ATEX Approved Online Particle Detector



The icountPD Particle Detector from Parker represents the most up to date technology in solid particle contamination analysis. This compact, permanently mounted laser-based ATEX approved particle detector module is designed for use in Zone 2 areas and is housed in a robust Stainless Steel IP69K approved enclosure that provides a cost effective solution to fluid management and contamination control.



# **Contact Information:**

Parker Hannifin Hydraulic Filter Division Europe

European Product Information Centre Freephone: 00800 27 27 5374 (from AT, BE, CH, CZ, DE, EE, ES, FI, FR, IE, IT, PT, SE, SK, UK) filtrationinfo@parker.com

www.parker.com/hfde

## **Product Features:**

- Independent monitoring of system contamination trends.
- Assembled in an approved and certified Stainless Steel enclosure to comply with ATEX Directive 94/9/EC.
- Can be used in explosive and hazardous areas.
- ATEX Zone 2.
- Certified to CE Ex II 3GD,Ex nA IIC T4 Gc,Ex tc IIIC Dc SIRA 09ATEX4340X and IECEx SIR 09.0137X (-30°C<Ta<+60°C).</li>
- Moisture & %RH indicator (optional).

- Warning limit relay outputs for low, medium and high contamination levels.
- Continuous performance for prolonged analysis.
- 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.

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### Features & Benefits

Diagnostic Self Check Start-up Time: Customer selectable 5-900 seconds Measurement Period: 5 to 180 seconds Reporting interval through RS232: 0 to 3600 seconds Limit Relay Output: Changes occur +/- 1 ISO code at set limit (Hysteresis ON) or customer set (Hysteresis OFF) Particle / % RH Output Signal: Continuous Principle of operation: Laser diode optical detection of actual particulates. **Reporting Codes:** ISO 7 - 21, NAS 0 - 12, (AS 00 - 12 Contact Parker) Icount will also report less than ISO 7, subject to the statistical uncertainty defined in ISO4406:1999, which is shown in the RS232, reporting results as appropriate e.g ">6" Calibration: By recognised on-line methods, confirmed by the relevant International Standard Organisation procedures. Calibration Recommendation: 24 months Performance: +/- 1 ISO Code (Dependant on stability of flow) Reproducibility / Repeatability: Better than 1 ISO Code **Power Requirement:** Regulated 9 to 40Vdc Maximum Current Draw: 150mA Hvdraulic Connection: Size: 066 Connection: EO 24 cone end

#### 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) **Required Differential Pressure across Inline Sensors:** 0.4 bar (Minimum) Viscosity Range: 1-500 cSt Temperature: Operating Environment -30°C to +60°C (-22°F to +140°F) Storage -40°C to +80°C (-40°F to +176°F) Operating Fluid +5°C to +80°C (+41°F to +176°F) Working pressure: 2 to 420 bar (30-6000 PSI) Moisture sensor calibration (Not offered with the fuel version): ±5% RH (over compensated temperature range of +10°C to +80°C) (+50°F to +176°F) Operating humidity range: 5% RH to 100% RH Moisture sensor stability: ±0.2% RH typical at 50% RH in one year Certification: IP69K rating EMC/RFI - EN61000-6-3:2007 EN61000-6-2:2005 Materials: Stainless Steel case construction. Stainless Steel hydraulic block. Dimensions: 260mm x 114mm x 110mm Weight: 2.6kg Seals:

40 to 140 ml/min (Optimum Flow = 60ml/min)

## **Ordering Information**

Product Configurator

	Key	Fluid type		Calibration		Display		Limit relay		Communication		Moisture		Cable connector kit	
I	IPDZ	1	Mineral	2	MTD	1	None	2	Yes	2	RS232 / 4 - 20mA	1	No	30	M12, 8 pin plug connector
		3	Aviation Fuel (4 channel)							5	RS232 / CANBUS (J1939)	2	Yes		

Fluorocarbon seals.

#### Standard Products Table

Part Number	Fluid type	Calibration	Display	Limit relay	Communication	Moisture	Cable connector kit
IPDZ12122230	Mineral	MTD	None	YES	RS232 / 4 - 20mA	YES	M12, 8 pin plug connector
IPDZ32122130	Aviation Fuel (4 channel)	MTD	None	YES	RS232 / 4 - 20mA	NO	M12, 8 pin plug connector

### Accessory Part Numbers

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	Description	Part Number				
	Single Point Sampler	SPS2021				
	External flow device	S840074				
	Power supply	ACC6NN013				
	2 x 10 metre M12, 8-pin plug and socket Ultrat cable kit	ACC6NN021				
	RS232 to USB converter	ACC6NN017				
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Note: For System 20 Sensor part numbers see page 428.

