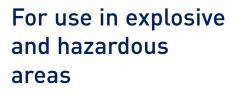
icountPD Z2 Hazardous Area Online Particle Detector



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

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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 2014/34/EU and UKSI 2016.
- Can be used in explosive and hazardous areas.
- ATEX Zone 2.
- Certified to CE, IECEx and UKCA.
- Ex II 3GD.

Ex ec nC IIC T4 Gc, Ta = $(-30^{\circ}C < Ta < +60^{\circ}C)$.

Ex tc IIIC T135°C Dc.

- SIRA 09ATEX4340X, IECEx SIR 09.0137X and CSAE22UKEX1161X.
- 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.



icountPD Z2 ATEX Approved Online Particle Detector



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 Hydraulic Connection: Size: 066 Connection: EO 24 cone end

40 to 140 ml/min (Optimum Flow = 60ml/min) 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 EN61000-6-2:2019 Materials: Stainless Steel case construction. Stainless Steel hydraulic block. **Dimensions:** 260mm x 114mm x 110mm Weight: 2.6kg Seals:

Ordering Information

Product Configurator

Key		Fluid type		Calibration		Display		Limit relay		Communication		Moisture		Cable connector kit	
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

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

