

CANTY

PROCESS TECHNOLOGY

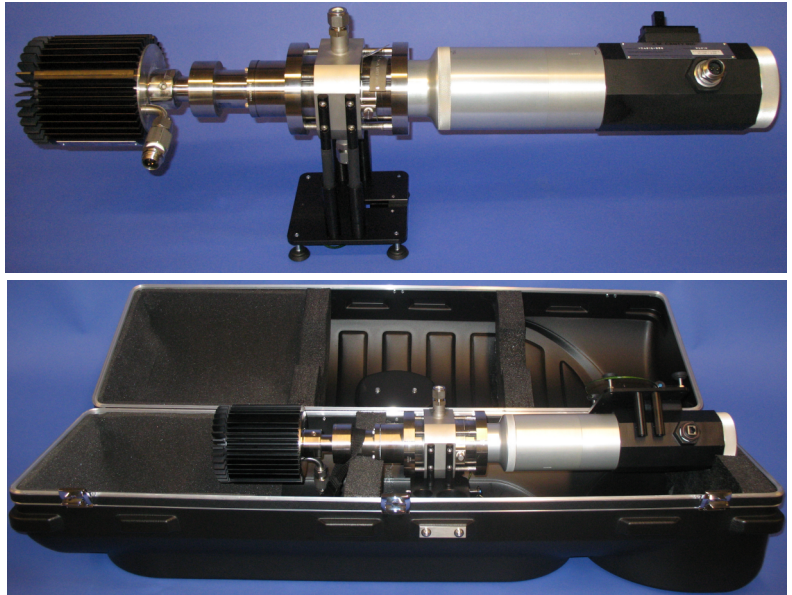
PORTABLE INFLOW™

Combining the latest in Ethernet technology with Canty fused glass, lighting and CANTYVISIONCLIENT™ software, the INFLOW™ Process Particle Analyzer provides real time particle size and shape analysis. The Portable Multiphase Meter models measure 0.7 micron - 20,000 micron particles under process conditions. By continuously measuring the product OIL, WATER, SAND, and GAS the OiW / WiO is continually analyzed. This allows the user to see the impact of any change to the refining or drilling system. By using a vision based system CANTY can easily detect all phases and separate them to give PPM/PPB distribution as well as SIZE distribution of all particulates.

No sampling or lab analysis is required! The Canty INFLOW™ has been engineered to offer the user a means to measure OiW/WiO monitoring online and real time. The INFLOW™ offers continuous, microscopic, non-destructive viewing and provides particle size analysis with two dimensional results. NO BUILDUP on product lens

due to superior fused glass design. Superior lighting allows crude oil to become easy to monitor. CANTYVISIONCLIENT™ software is installed on a user-supplied PC, and connected to the INFLOW™ measurement system via Gigabit Ethernet network. Live images of the process can be viewed from any networked PC. The live images are remotely analyzed by CANTYVISIONCLIENT™ software.

The camera and light are into the process stream and away from the wall which, is made possible by the Fuseview™ sight glass, which allows the optical fused pieces to be located in the center of the fluid stream, which is unique to the Canty system. The fused glass seal contains no gaskets, ledges, or steps allowing the highest velocity, representative sample and keeps the sensor clean, even in the harshest of environments (polymer, crude oil, drilling mud, epoxy, etc.). The fused glass seal location keeps the sensor in line with the process temperature to avoid the product build up due to thermal change. The image processor can be configured with multiple zone sensing on the image of the fluid. The results from the zones can be compared to base line values for reliability and alarm on detection of a problem. A fixed Inflow unit is also available for hook up to process lines.



FEATURES

- 0.7 micron - 20,000 micron Particle Size Options. See Part Number.
- Gigabit Ethernet Connectivity
- Real Time Monitoring Of CIP In Flow
- Supplied With Internal O-ring Seals
- Easily Installed Modular Unit
- Fused Glass Process Barriers
- Regulated Light Source Emits Cold Light To Prevent Product Bake-On
- OPC, 4-20mA Current Loop, EXCEL spreadsheet and Relay Outputs Are Available

ADVANTAGES

- Oil / Water / Sand / Gas Count and Characterization
- PPM / PPB Output
- Oil in Water detection
- Water in Oil detection
- Crude Oil
- Various Process Connection Sizes Available
- Fully Cleanable Unit
- High Throughput
- Provides Both A Real Time, In Flow Measurement And A Continuous Real Time View Of The Product

PARTICLE SIZE ANALYSIS

- Replaces and Correlates to Screen Analysis
- Distribution By Major, Minor Diameter
- Visually Verifiable Results Via Live Images
- Particle Area
- Histogram Distributions - Bin Size
- Percent Passing by Volume vs. Size
- Particle Perimeter
- Full EXCEL data logging
- Many Library Functions

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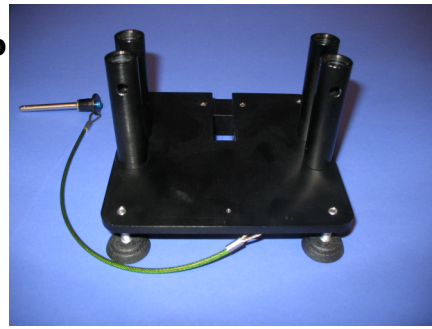
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QUICK ASSEMBLY

Step 1.

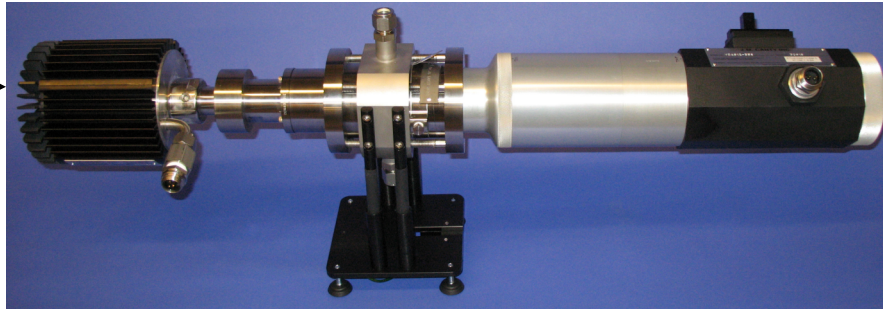


Step 2.



Step 3.

Canty Light - Provides optimal backlighting with variable 0-1/2" [12.7mm] measurement gap



Gigabit Ethernet Vision System

- Notes:**
- A. Camera and Light PSUs are not shown but must be located within 100 feet of the unit. The Camera Power Supply enclosure has the same environmental rating as the system.
 - B. CantyVisionClient™ Software is included but the customer provides the PC which is not included with the system. Reference Document TA10592-1 for computer requirements.
 - C. Small gap sizes used with samples that do not stay uniformly distributed may require verification of the data with a Canty MICROFLOW™.

Ordering Information

HOW TO ORDER: Select the appropriate symbols and build a part number :

EXAMPLE:

PIF - 6 B 0 1 1 - C

APPLICATION
O - Oil In Water
M - Multiphase
W - Water in Oil

INPUT POWER
A - 120 V AC / 60Hz / 250W
B - 230 V AC / 50Hz / 250W

Standards:
 Connection Type: Swagelok®
 Connection Size: 1/2" (12.7mm)
 Pressure Rating: 500 PSI/ 35 BAR
 Wetted Metal Material: 316L Stainless Steel
 NON-Wetted Metal Material: 300 Series Stainless Steel

INTERNAL SEAL MATERIAL	
B - BUNA	N - NEOPRENE
V - VITON®	K - KALREZ®
S - SILICONE	C - CHEMREZ®
E - EPDM	

ENVIRONMENTAL RATING	
1 -	NEMA 4 WEATHERPROOF
2 -	IP 66
3 -	EXPLOSION PROOF(DIV2)
4 -	FLAME PROOF/ ATEX