

# CANTY

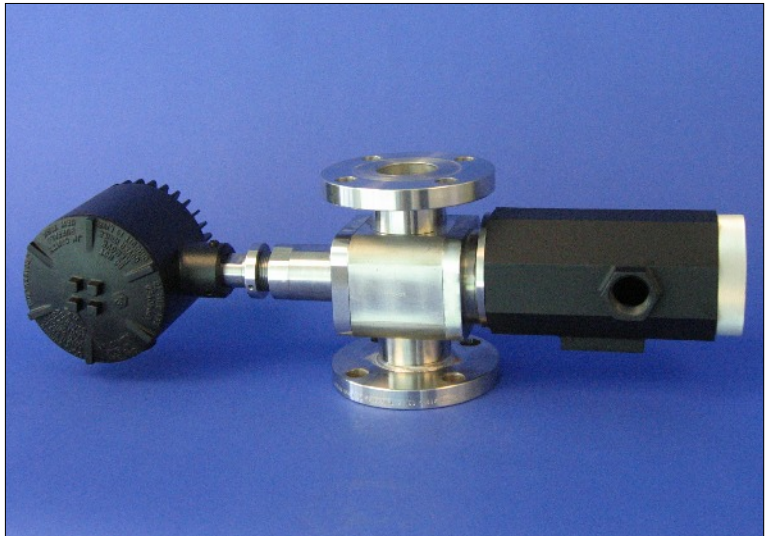
## PROCESS TECHNOLOGY

### INFLOW™ PARTICLE ANALYZER

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. Various models measure 0.7 micron - 20,000 micron particles under process conditions.

No sampling or lab analysis is required! Each unit can be fully integrated into existing TCP/IP networks. Some systems may require a side stream to control flow rates.

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. A comprehensive library of standard utilities and data functions provide a multitude of *real-time* process information.



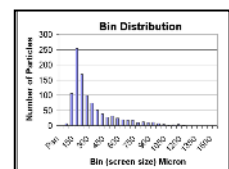
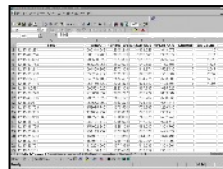
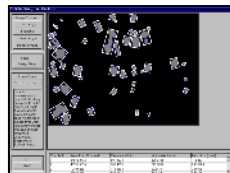
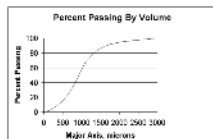
The CANTY INFLOW™ Fluid Particle Sizing System uses a 0-1/2" variable insertion measurement gap. This insertion is made possible by the Fuseview™ sight glass, which allows the optical fused pieces to be located in the center of the fluid stream, which is unique to the Canty system. The fused glass seal 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. The setup is first verified in the lab with the Canty MICROFLOW™, which is an optically identical unit.

#### FEATURES

- 0.7 micron - 20,000 micron Particle Size Options. See Part Number.
- Gigabit Ethernet Connectivity
- Real Time Monitoring Of Process 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

- Provides Both A Real Time, In Flow Measurement And A Continuous Real Time View Of The Product
- Various Process Connection Sizes Available (Flanged, Tri-Clamp®, compression fitting, Tube or NPT)
- Fully Cleanable Unit
- High Throughput
- Available In NEMA4, IP66, Explosion Proof or Flame Proof Packages
- Digital Video Storage to Customer PC / DVD or Network Drive



#### PARTICLE SIZE ANALYSIS

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

**CANTY**

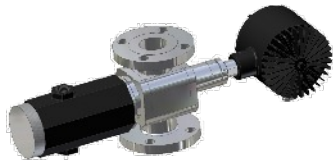
JM Canty Inc  
JM Canty Intl Ltd

Buffalo, NY USA  
Dublin, Ireland

Ph: (716) 625 4227  
Ph: +353 (01) 882 9621

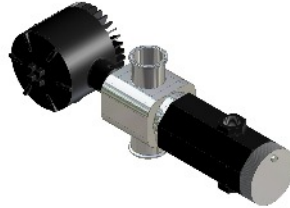
Fax: (716) 625 4228  
Fax: +353 (01) 882 9622

## MOUNTING CONNECTIONS



**FLANGE CONNECTION**

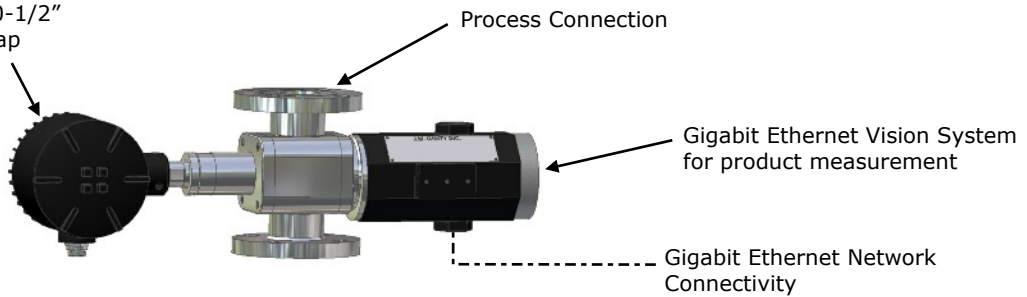
### TRI-CLAMP® CONNECTION



**COMPRESSION FITTING CONNECTION**

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

### TYPICAL PACKAGE



**Notes:**

1. 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.
2. CantyVisionClient™ Software is included but the customer provides the PC which is not included with the system. Reference Document TA10592-1 for computer requirements.
3. 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:

**V S 6 C 1 1 1 A A 1 V**

<b>APPLICATION</b> S - In Line Particle Sizing	<b>INTERNAL SEAL MATERIAL</b> B - BUNA                      N - NEOPRENE V - VITON®                  K - KALREZ® S - SILICONE                C - CHEMRAZ® E - EPDM														
<b>PARTICLE SIZE RANGE</b> <table border="1"> <thead> <tr> <th>Field of View (mm)</th> <th>P.S. Measure (micron)</th> </tr> </thead> <tbody> <tr><td>1 - 10.7 x 8</td><td>33 - 2200</td></tr> <tr><td>2 - 16 x 12</td><td>50 - 3200</td></tr> <tr><td>3 - 26 x 18</td><td>80 - 4800</td></tr> <tr><td>4 - 3 x 2.2</td><td>9 - 600</td></tr> <tr><td>5 - 6 x 4.4</td><td>18 - 1200</td></tr> <tr><td>6 - .3 x .24 (Max Zoom) - 2 x 1.7 (Min Zoom)</td><td>.7 - 480</td></tr> </tbody> </table>	Field of View (mm)	P.S. Measure (micron)	1 - 10.7 x 8	33 - 2200	2 - 16 x 12	50 - 3200	3 - 26 x 18	80 - 4800	4 - 3 x 2.2	9 - 600	5 - 6 x 4.4	18 - 1200	6 - .3 x .24 (Max Zoom) - 2 x 1.7 (Min Zoom)	.7 - 480	<b>ENVIRONMENTAL RATING</b> 1 - NEMA 4 WEATHERPROOF 2 - IP 66 3 - EXPLOSION PROOF 4 - FLAME PROOF
Field of View (mm)	P.S. Measure (micron)														
1 - 10.7 x 8	33 - 2200														
2 - 16 x 12	50 - 3200														
3 - 26 x 18	80 - 4800														
4 - 3 x 2.2	9 - 600														
5 - 6 x 4.4	18 - 1200														
6 - .3 x .24 (Max Zoom) - 2 x 1.7 (Min Zoom)	.7 - 480														
<b>CONNECTION TYPE</b> A - Tri Clamp® B - Compression Fitting C - Flange (ANSI/DIN) D - Tube Diameter E - NPT (Female)	<b>ANSI OR DIN PRESSURE RATING / FLANGE PATTERN</b> <table border="1"> <thead> <tr> <th>ANSI</th> <th>DIN</th> </tr> </thead> <tbody> <tr><td>A - 150 PSI</td><td>D - 10 BAR</td></tr> <tr><td>B - 300 PSI</td><td>E - 16 BAR</td></tr> <tr><td>C - 600 PSI</td><td>F - 25 BAR</td></tr> </tbody> </table> Consult Factory for pressure rating up to 10,000 PSI	ANSI	DIN	A - 150 PSI	D - 10 BAR	B - 300 PSI	E - 16 BAR	C - 600 PSI	F - 25 BAR						
ANSI	DIN														
A - 150 PSI	D - 10 BAR														
B - 300 PSI	E - 16 BAR														
C - 600 PSI	F - 25 BAR														
<b>CONNECTION SIZE</b> <table border="1"> <tbody> <tr><td>0 - 1/2" (12.7mm)</td><td>3 - 3" (80mm)</td></tr> <tr><td>7 - 3/4" (19mm)</td><td>4 - 4" (100mm)</td></tr> <tr><td>1 - 1" (25mm)</td><td>6 - 6" (150mm)</td></tr> <tr><td>5 - 1.5" (38mm)</td><td>8 - 8" (200mm)</td></tr> <tr><td>2 - 2" (50mm)</td><td></td></tr> </tbody> </table>	0 - 1/2" (12.7mm)	3 - 3" (80mm)	7 - 3/4" (19mm)	4 - 4" (100mm)	1 - 1" (25mm)	6 - 6" (150mm)	5 - 1.5" (38mm)	8 - 8" (200mm)	2 - 2" (50mm)		<b>INPUT POWER</b> A - 120 V AC / 60Hz / 250W B - 230 V AC / 50Hz / 250W				
0 - 1/2" (12.7mm)	3 - 3" (80mm)														
7 - 3/4" (19mm)	4 - 4" (100mm)														
1 - 1" (25mm)	6 - 6" (150mm)														
5 - 1.5" (38mm)	8 - 8" (200mm)														
2 - 2" (50mm)															
<b>WETTED METAL MATERIAL</b> 1 - 316L Stainless Steel 2 - Hastelloy® C276 or equal 3 - Hastelloy® C-22® or equal	<b>NON-WETTED METAL MATERIAL(PRESSURE BEARING)</b> 0 - Carbon Steel 1 - 300 Series Stainless Steel														

**CANTY** JM Canty Inc  
JM Canty Intl Ltd

Buffalo, NY USA  
Dublin, Ireland

Ph: (716) 625 4227  
Ph: +353 (01) 882 9621

Fax: (716) 625 4228  
Fax: +353 (01) 882 9622