



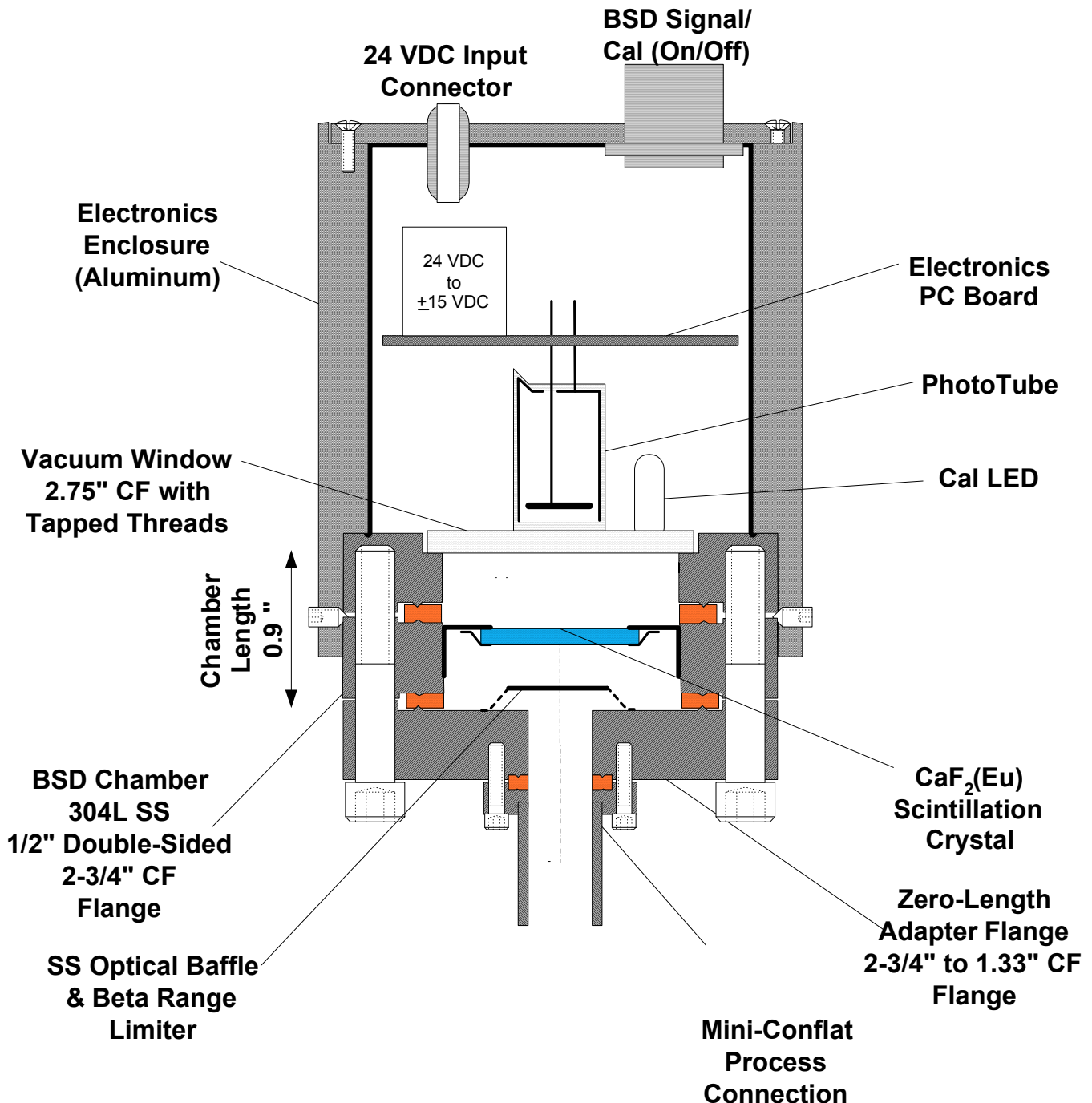
Mound Technical Solutions, Inc.

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Beta Scintillation Detector Model BSD133



Specifications

Maximum Total Gas Pressure:	10 torr
Maximum T ₂ Partial Pressure:	3 torr-T ₂
Sensitivity for T ₂ :	3 VDC/Torr
Minimal Detectable T ₂ Partial Pressure:	3 x 10 ⁻⁵ torr-T ₂ [1X Output] 3 x 10 ⁻⁶ torr-T ₂ [10X Output]
Sample Chamber Volume:	~20 cm ³
Process Connection:	Mini-Conflat Flange (Non-Rotatable) With Standard Cu Gasket
<u>Accuracy:</u>	
• Internal LED Reference:	10% of Reading
• Calibration w/ Known T ₂ Std Mixture(s):	Larger of 1% of Reading or 3 x 10 ⁻⁵ torr-T ₂
Materials Exposed to Beta Emitting Gas:	304 SS, Ca F ₂ [Eu] Scintillator Crystal Copper, Borosilicate Glass
Maximum Overpressure:	5 psig (Limited by Vacuum Window)
Ambient Operating Temperature Range:	10 - 50 °C (50 - 120 °F)
Power Input:	115 VAC 10 Watts [24 VDC Power Supply]
BSD Output & Control Connector:	V(BSD-1X) V(BSD-10X) Common Calibration LED (On/Off) Ground

**For additional technical information, please contact our subject matter expert: Dr. Robert Ellefson
315.247.3679**

- Additional related MoundTech services:
- System design consulting
 - Installation
 - Calibration
 - Training

BSD133 04/07

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