



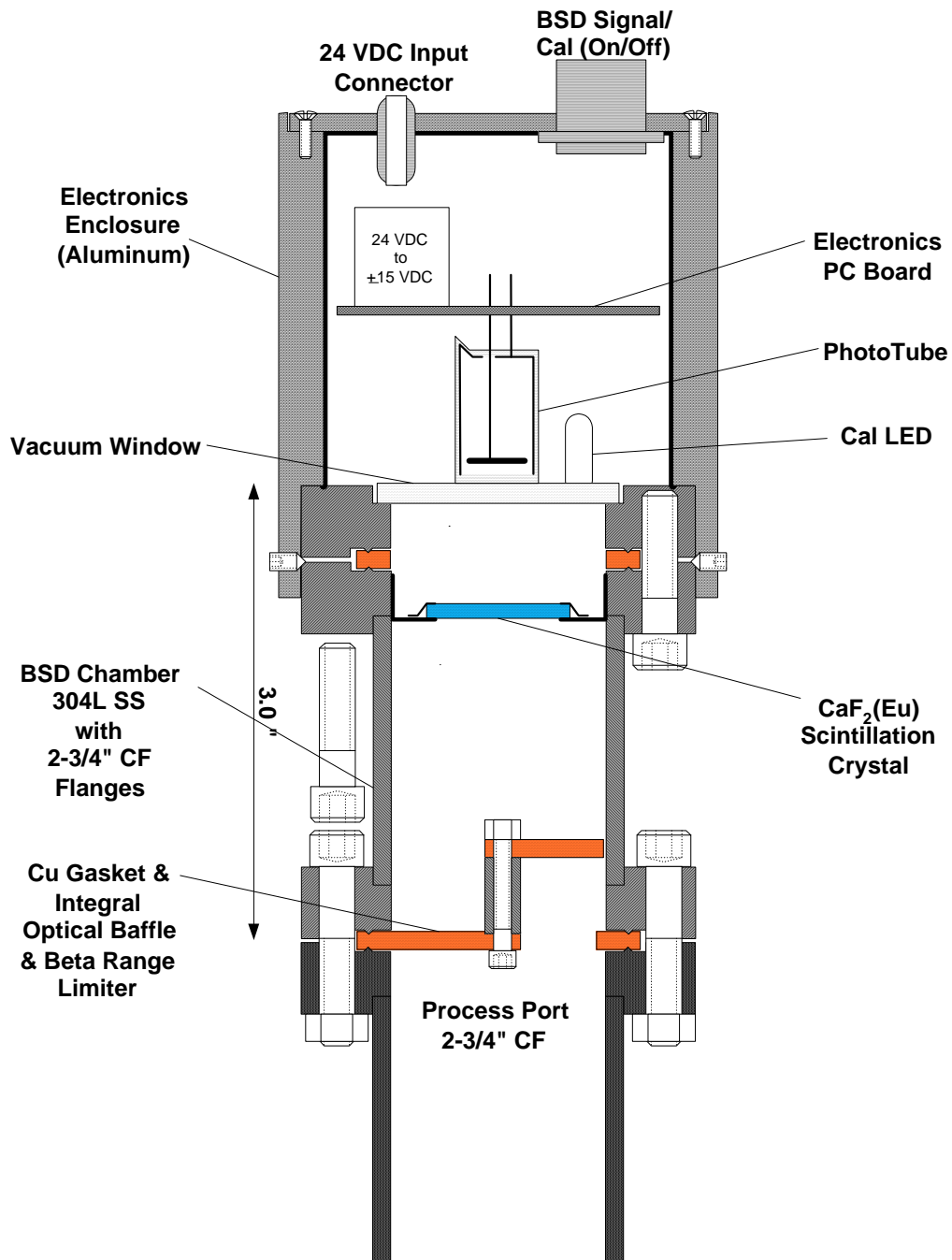
# MoundTechnical Solutions, Inc.

965 Capstone Dr. POB 203 Miamisburg, OH 45343 USA

937.865.3715

www.moundtech.com

## Beta Scintillation Detector Model BSD 275



## Specifications

Maximum Total Gas Pressure:	10 torr
Maximum T <sub>2</sub> Partial Pressure:	1 torr-T <sub>2</sub>
Sensitivity for T <sub>2</sub> :	10 VDC/Torr
Minimal Detectable T <sub>2</sub> Partial Pressure:	10 <sup>-5</sup> torr-T <sub>2</sub> [ 1X Output] 10 <sup>-6</sup> torr-T <sub>2</sub> [10X Output]
Sample Chamber Volume:	~60 cm <sup>3</sup>
Process Connection:	2 ¾" Conflat Flange (Non-Rotatable) With Cu Gasket/Optical Baffle Seal
Accuracy:	
Internal LED Reference:	10% of Reading
Calibration w/ Known T <sub>2</sub> Std Mixture(s):	Larger of 1% of Reading or 10 <sup>-5</sup> torr-T <sub>2</sub>
Materials Exposed to Beta Emitting Gas:	304 SS, Ca F <sub>2</sub> [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

BSD275 04/07

**Mound Technical Solutions • 965 Capstone Drive Suite 326 • P.O. Box 203 •  
Miamisburg, Ohio 45343-0203  
phone: 937-865-3715 • fax: 937-865-4890 • www.moundtech.com**