



Revised 3/3/00

ORDELA MODEL 2100AB

LOW-BACKGROUND ALPHA/BETA COUNTER

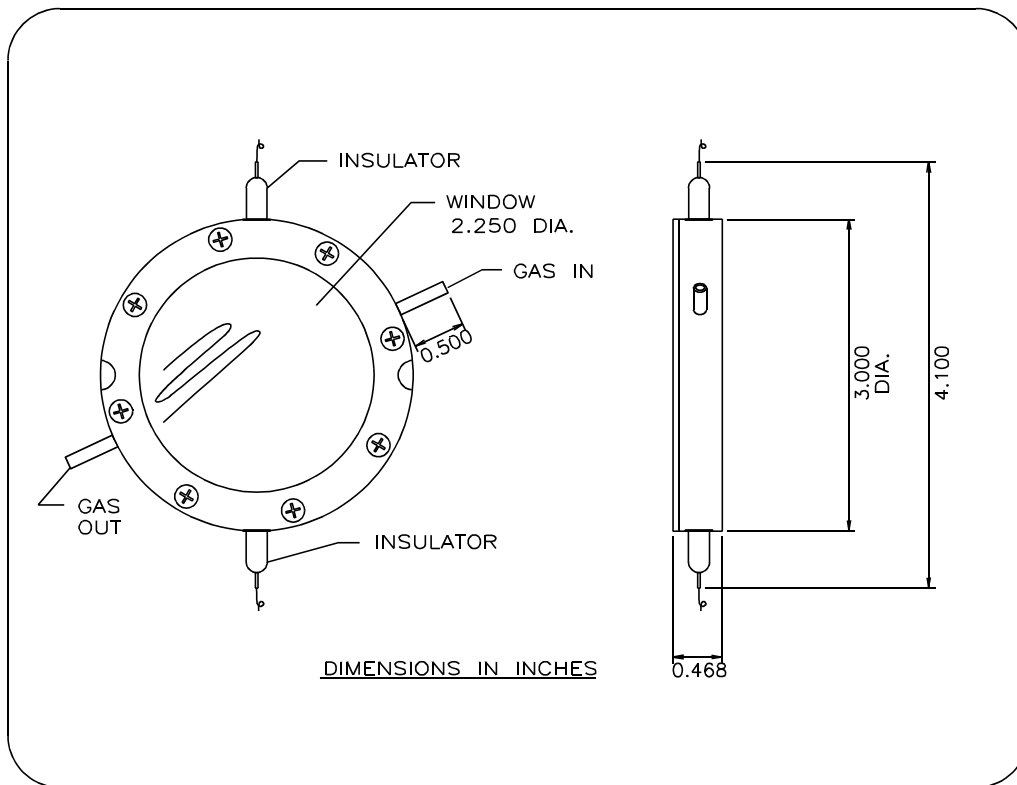
DESCRIPTION

The ORDELA, Inc. Model 2100AB is a low background, gas-flow proportional counter. It is a 7.6 cm (3.0 in.) diameter pancake-style counter with a 5.7 cm (2.25 in.) diameter, 100 $\mu\text{g}/\text{cm}^2$ mylar window (standard). It is constructed from solid OFHC copper for the lowest possible background and has a single anode wire. Normally P-10 gas is used for operation. Sealed detectors, dual anode wires, or other OEM modifications to the model 2100AB are available on special order. Contact the factory for additional information or for quantity pricing.

SPECIFICATIONS

BACKGROUND:	<1.1 counter per minute (cpm) alpha plus beta typical alpha = 0.01 cpm typical beta = 1.0 cpm
EFFICIENCY:	(with standard 100 $\mu\text{m}/\text{cm}^2$ window) >30% for ^{14}C >45% for $^{90}\text{Sr}/^{90}\text{Y}$ >40% for ^{210}Po
DETECTOR PLATEAUS:	^{210}Po : <1.5% slope/100 V; >800 V plateau ^{90}Sr : <2.5% slope/100 V; >200 V plateau
UNIFORMITY:	$\pm 5\%$ over 90% of the window
SIZE:	7.6 cm (3.0 in.) diameter x 1.3 cm (0.5 in.) thick
WEIGHT:	0.23 kg (0.5 lbs.) net; 2.3 kg (5.0 lbs.) shipping weight

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ORDELA MODEL 2100AB OUTLINE AND DIMENSIONS

WARRANTY

ORDELA, Inc. warrants its products to be free from defects in materials and workmanship for 12 months after shipment. No other warranty is included. Specifically, no warranty of merchantability or fitness for a particular purpose is implied. ORDELA's liability under this warranty is limited to repairing or replacing the product at ORDELA's option. This warranty is void if the product is operated improperly, disassembled, or modified other than in the ORDELA laboratory.