



Revised 3/3/00

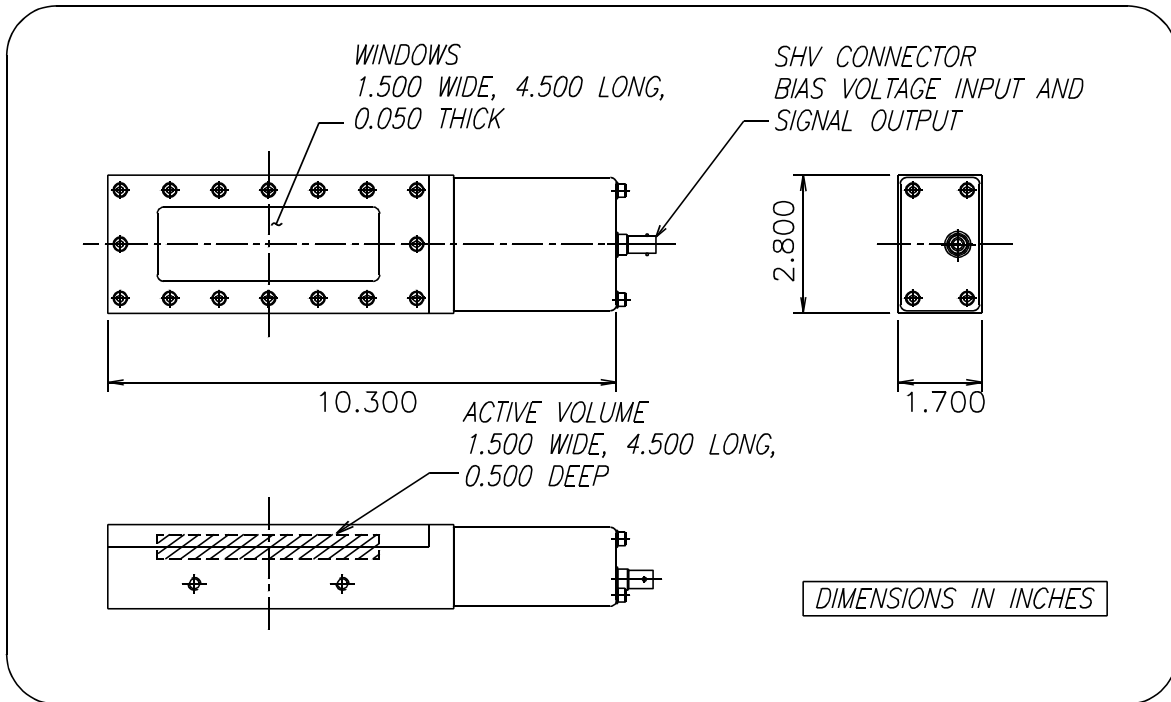
## ORDELA MODEL 4100N NEUTRON BEAM MONITOR

### DESCRIPTION

The ORDELA Model 4100N Neutron Beam Monitor is a two-wire proportional counter designed for high transparency to neutrons of 0.025 eV energy. The gamma sensitivity has been reduced by using all-aluminum construction and a quench gas of low cross-section for gamma radiation. No hydrogen bearing materials are used in the counter or quench gas. The complete Neutron Beam Monitor is packaged in a 7.1-cm-wide, 26.2-cm-long, and 4.3-cm-high unit.

### SPECIFICATIONS

DETECTION EFFICIENCY:	$5 \times 10^{-5} \pm 10\%$ for a nominal neutron energy of 0.025 eV (0.18 nm wavelength)
COUNTER GAS:	$^3\text{He}$ at 0.23 Torr partial pressure, plus $^4\text{He}/\text{CF}_4$ at 519 Torr partial pressure
SENSITIVE AREA:	3.8 cm wide x 11.4 cm long
SENSITIVE DEPTH:	1.3 cm
WINDOW THICKNESS:	0.2 cm Aluminum
HIGH-VOLTAGE BIAS:	800 V
CONNECTORS:	One SHV connector for signal output and bias
STANDARD ACCESSORIES:	One bellows valve type Nupro SS-4H



**ORDELA MODEL 4100N OUTLINE 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.