

# 25285

Cylindrical he3 neutron detector

## GENERAL SPECIFICATIONS

<b>MAXIMUM LENGTH (INCH/MM)</b>	7.09/180.09
<b>MAXIMUM DIAMETER (INCH/MM)</b>	1.0/25.4
<b>EFFECTIVE LENGTH (INCH/MM)</b>	4.0/101.6
<b>CATHODE MATERIAL (INTERNAL/EXTERNAL)</b>	Stainless Steel
<b>EFFECTIVE DIAMETER (INCH/MM)</b>	0.94/23.88
<b>CONNECTOR</b>	HN
<b>OPERATING TEMPERATURE RANGE °C</b>	-50 to +100
<b>GAS PRESSURE (TORR)</b>	3040
<b>EFFECTIVE VOLUME (CM<sup>3</sup>)</b>	45.5

## ELECTRICAL SPECIFICATIONS

<b>RECOMMENDED OPERATING VOLTAGE (VOLTS)</b>	1250
<b>OPERATING VOLTAGE RANGE (VOLTS)</b>	1100 - 1400

MAXIMUM PLATEAU SLOPE (%/100 VOLTS)	1
TUBE CAPACITANCE (PF)	8
WEIGHT (GRAMS)	142
MAXIMUM RESOLUTION (% FWHM)	8

## THERMAL NEUTRON SENSITIVITY

SENSITIVITY (CPS/NV)	14.0
----------------------	------

