

VACUUM GAUGE HEAD , BAYARD-ALPERT TYPE

Glass envelope, ultra-high vacuum gauge head of the Bayard-Alpert type. Measuring range 10^{-3} torr to 10^{-10} torr; sensitivity approx. 12 per torr.

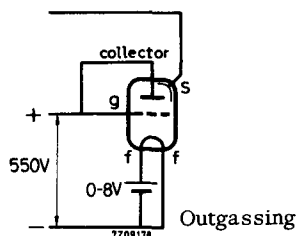
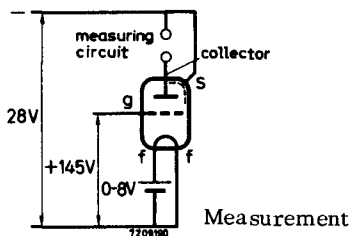
The gauge head is provided with an electrically conductive layer deposited on the inside of the glass envelope. By applying a fixed potential to the layer, excess primary electrons are attracted directly to the envelope rather than oscillating around the collector thereby leading to very stable measurements of low pressure.

Moreover the gauge head features a low thermal inertia and a low filament power consumption.

CHARACTERISTICS

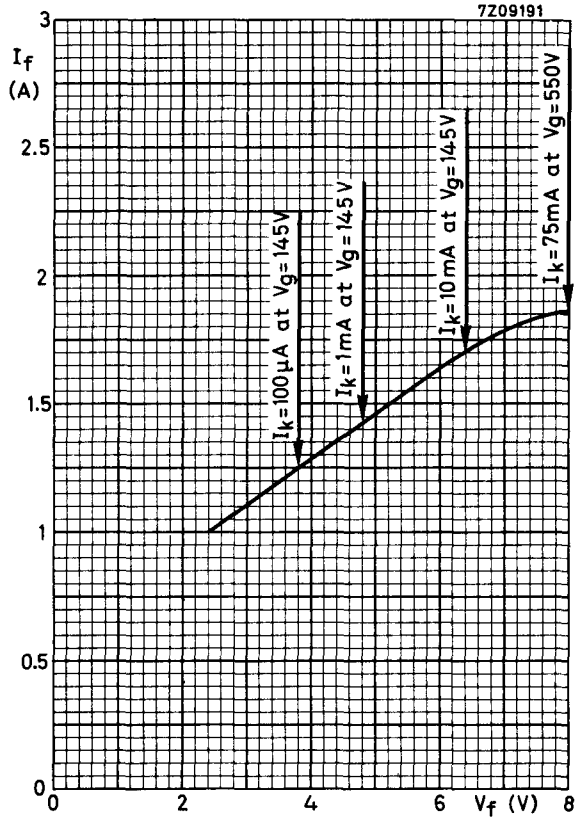
Pressure range	10^{-3} to 10^{-10} torr
Sensitivity (for nitrogen)	approx. 12 per torr
Emission current range	$1 \mu\text{A}$ to 75 mA
Filament characteristics	see page 3
Insulation resistance	
Collector to other electrodes	min. $10^{14} \Omega$
Grid to other electrodes	min. $10^{12} \Omega$

TYPICAL OPERATING CONDITIONS



Emission current (see also page 3)

measurement	100 μA , 1 mA or 10 mA
outgassing	75 mA



PHILIPS

Data handbook



**Electronic
components
and materials**

IOG12

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