

ELECTRONIC TUBE REFERENCE

IOG17

Specialized - Gauge Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

GAUGE

Bayard-Alpert ultra-high-vacuum ionization gauge head designed for very-low-pressure measurement with published nitrogen sensitivity and selectable emission current.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Gauge
No fixed ratings recorded.
Published ratings/characteristics are also preserved as parameter rows.

Bayard-Alpert ultra-high-vacuum ionization gauge head. Electrical ratings, heater data, operating limits, and published characteristics are captured from the supplied datasheet.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

Section 1 · Gauge

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
range	3 torr	range 10=3 torr to 101 torr; sensitivity approx. 12 per torr.
range	101 torr	range 10=3 torr to 101 torr; sensitivity approx. 12 per torr.
range	12 per torr	range 10=3 torr to 101 torr; sensitivity approx. 12 per torr.
Pressure range	10710 torr	Pressure range 1073 to 10710 torr
Sensitivity (for nitrogen) approx	12 per torr	Sensitivity (for nitrogen) approx. 12 per torr
Emission current range 1uA to 75 mA	75 mA	Emission current range 1uA to 75 mA
28V T	28 V	28V T
Grid voltage, in combination with fil	1 V	Grid voltage, in combination with fil. 1 Vo +145 V
Grid voltage, in combination with fil	145 V	Grid voltage, in combination with fil. 1 Vo +145 V
in combination with fil	178 V	in combination with fil. 2 +178 V
measurement	100 uA	measurement 100 uA, 1 mA or 10 mA
measurement	1 mA	measurement 100 uA, 1 mA or 10 mA
measurement	10 mA	measurement 100 uA, 1 mA or 10 mA
outgassing	75 mA	outgassing 75 mA
Pressure (filament litt) max,	1073 torr	Pressure (filament litt) max, 1073 torr
Emission current max	75 mA	Emission current max. 75 mA
Grid input power max	40 w	Grid input power max. 40 w
1200177 s!	1200177 s	1200177 s!

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
1,,=100uA at Vg=145V	100 uA	1,,=100uA at Vg=145V 100uA at Vg=178v
1,,=100uA at Vg=145V	145 V	1,,=100uA at Vg=145V 100uA at Vg=178v
1,,=100uA at Vg=145V	178 v	1,,=100uA at Vg=145V 100uA at Vg=178v
I=ImA at Vg=145V	145 V	I=ImA at Vg=145V
=10mA at Vg=178V	10 mA	=10mA at Vg=178V
=10mA at Vg=178V	178 V	=10mA at Vg=178V
Ix=75mA at Vg=550v	75 mA	Ix=75mA at Vg=550v
Ix=75mA at Vg=550v	550 v	Ix=75mA at Vg=550v
6 Vg (V)	6 V	6 Vg (V) 8

TUBE TINKER

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