Permanent Sensitivity GAMMA COUNTERS

5887 (75N) or 5888 (75NB3)

Description

The type **75N** or **75NB3** is an inexpensive, rugged gamma counter for survey, demonstration, or monitoring applications. The infinite-life, halogen filling gives this tube an unusual electrical ruggedness to match its mechanical strength.

The absence of flanges or external glass structures enables this tube to be bundled in multiple arrangements with good volumetric efficiency.

General Data

Operating temperature range	55° to +75°C
Gas filling.	Neon plus halogen admixture
Cathode material	stainless steel (28% chromium, 72% iron)
Effective cathode dimensions8	2-11/16" long x .607" I.D. x .009" wall

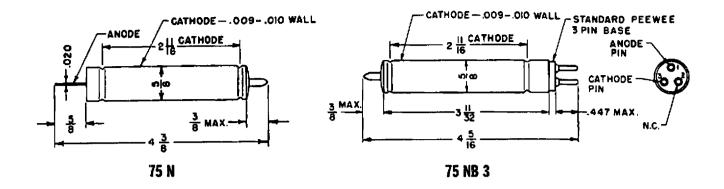
Performance

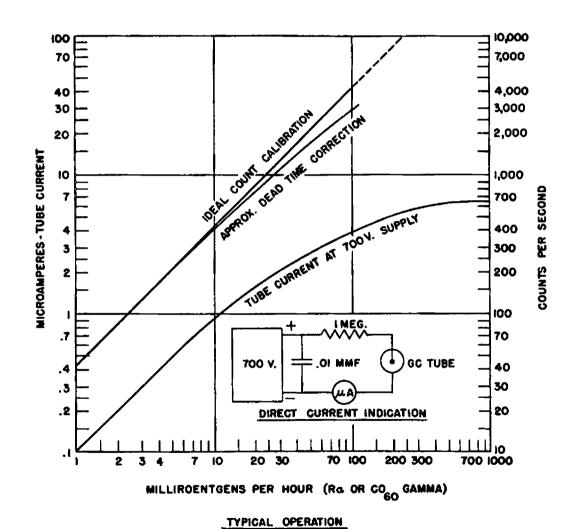
700 volts D.C.
in excess of 125 volts
less than 15% per 100 volts
625 volts max.
1.5 mmi
80%
100 microseconds
1,700 counts per second
50 counts per minute max.
±30%
unlimited by use

Notes

- $^{\mathrm{1}}$ This data is obtained from an automatic plateau trace run on each tube.
- ² Guaranteed 5 x 10¹⁰ counts minimum.
- $^{3}% \left(1\right) =0$ These tubes will operate satisfactorily anywhere on the plateau.
- ⁴ Also available upon request filled at 900 volts operating voltage.
- 5 At an average counting rate of 100 counts per second.
- 6 For 20% dead time correction (approx.).
- 7 Calculated value based on radiocobalt gamma center value with 100KV to 3 M.E.V. extremes.
- 8 This tube is also available with an effective cathode length of 12" upon special request for cosmic ray research, oil well logging, and other applications.

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