

# Centronic GM-Tubes (ZP Series)

The ZP series is ideal for low level gamma and x-ray detection. These tubes are useful for environmental monitoring, and for surveying areas which may have trace amounts of radioactivity. Manufacturers, such as Automess, utilize some these Geiger-Müller tubes for their survey meters.

Type	Sensitivity			Plateau		Counting Rate At	Dead Time	Back- Ground Shielded	Dose Rate Range
	Band	Length	Threshold	Length	Slope	10 <sup>-2</sup> mGy/h	(µs)	(count/min.)	(mGy/h)
	α β γ	(mm)	(V) max.	(V)	(% /V) max.	(count/s) †	max.	max.	typical
ZP1200	•	40	400	200	0.04	28	90	10	10 <sup>-3</sup> – 10 <sup>2</sup>
ZP1206	•	14.5	450	100	0.1	11	70	9	1.5 × 10 <sup>-3</sup> – 2 × 10 <sup>2</sup>
ZP1210	•	140	400	100	0.15	110	200	70	3 × 10 <sup>-4</sup> – 10
ZP1220	•	240	400	100	0.15	180	210	90	2 × 10 <sup>-4</sup> – 3
ZP1220/EC *	•	240	400	100	0.15	180	210	90	2 × 10 <sup>-4</sup> – 3
ZP1220/01	•	240	400	100	0.15	180	210	60	2 × 10 <sup>-4</sup> – 3
----- With compensating filter									
ZP1221/01	•	240	400	100	0.15	180	210	60	2 × 10 <sup>-4</sup> – 3
ZP1201	•	40	400	200	0.04	20	110	10	10 <sup>-3</sup> – 40
ZP1221	•	240	400	100	0.15	180	210	90	2 × 10 <sup>-4</sup> – 3
ZP1301	•	7	500	100	0.30	340 †	13	1	10 <sup>-1</sup> – 1 × 10 <sup>4</sup>
ZP1302	•	7	500	100	0.30	340 †	13	12 – 120	10 <sup>-1</sup> – 1 × 10 <sup>4</sup>
ZP1313	•	16	500	150	0.15	1600 †	15	2	10 <sup>-2</sup> – 1 × 10 <sup>3</sup>
ZP1321	•	28	500	150	0.08	9	55	12	3 × 10 <sup>-3</sup> – 10 <sup>2</sup>
----- Ambient dose compensated									
ZP1202	•	40	400	200	0.04	20	110	10	10 <sup>-3</sup> – 40
ZP1211/02	•	140	400	100	0.15	110	200	60	3 × 10 <sup>-4</sup> – 10
ZP1221/02	•	240	400	100	0.15	180	210	60	23 × 10 <sup>-4</sup> – 3
ZP1304	•	7	500	100	0.30	340 †	13	1	10 <sup>-1</sup> – 1 × 10 <sup>4</sup>
ZP1314	•	16	500	150	1.15	1600 †	15	2	10 <sup>-2</sup> – 1 × 10 <sup>3</sup>
ZP1324	•	27	500	150	0.08	9	55	12	3 × 10 <sup>-3</sup> – 10 <sup>2</sup>

**Notes :**

\* = End connector

◇ = Counting rate at 10 mGy /h

◆ = <sup>137</sup>Cs

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