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29.01.2021

Department of Physics

Corrigendum-1

Tender Reference no: PHY/2021/009/STORES/SSRK

Name of the Item: Single Photon Counting Module

Corrigendum details: Changes in the technical Specification

Changes in the technical Specification:

Item 1:

Minimum specification for **Single Photon Counting Module**

Sr. no.	Specification	Value
1	Coupling	Fiber coupled
2	Peak photon detection efficiency @ 600nm	at least 60 %
3	Dynamic range	> 30 Mcps
4	Wavelength range	400 – 1000 nm (min)
5	Active area	> 150 μ m
6	Dark count	\leq 100 cps
7	Average dark count variation at constant temperature (6 hrs @ 25 °C)	\pm 10% (or lesser)
8	Average dark count variation at temperature range from 5-70 °C	\pm 20% (or lesser)
9	Output pulse width	7 – 15 ns
10	Output pulse amplitude	Should be compatible with standard TTL.

11	Dead time	< 25 ns
12	Single photon counting resolution (@ 825 nm)	350 ± 30 ps
13	Output count rate before saturation	35 Mc/s or greater
14	Threshold setting required on counter for digital output pulse (terminate at 50 Ω)	≤ 1 V
15	Gating turn on/off Disable = TTL low (<0.8V) Enable = TTL high (> 2 V)	≤ 45 ns ≤ 65 ns

Please provide a clear warranty statement for 1 years

Item 2:

Minimum specification for **Single Photon Counting Module**

Sr. no.	Specification	Value
1	Coupling	Free space
2	Peak photon detection efficiency @ 600nm	> 60 %
3	Dynamic range	> 30 Mcps
4	Wavelength range	400 – 1000 nm (min)
5	Active area	> 150 μm
6	Dark count	≤ 500 cps
7	Average dark count variation at constant temperature (6 hrs @ 25 °C)	±10% (or lesser)
8	Average dark count variation at temperature range from 5-70 °C	±20% (or lesser)
9	Output pulse width	7 – 15 ns
10	Output pulse amplitude	Should be compatible with standard TTL.
11	Dead time	< 25 ns
12	Single photon counting resolution (@ 825 nm)	350 ± 30 ps

13	Output count rate before saturation	35 Mc/s or greater
14	Threshold setting required on counter for digital output pulse (terminate at 50 Ω)	≤ 1 V
15	Gating turn on/off Disable = TTL low (<0.8V) Enable = TTL high (> 2 V)	≤ 45 ns ≤ 65 ns

Please provide a clear warranty statement for 1 years

Tender Inviting Authority:

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