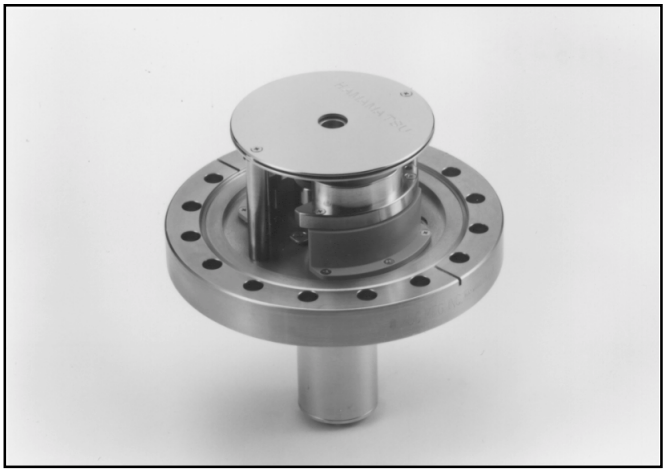
For LC-MS

POSITIVE ION DETECTOR H8285

Longer Service Life; Used with Photomultiplier Tube

OVERVIEW

Ion detector service life depends greatly on output current magnitude and ambient conditions. In particular, the service life of ion detectors tends to drastically shorten when used in LC-MS. The Hamamatsu H8285 ion detector was specially designed to eliminate this problem of a short service life, making it ideal for LC-MS applications. The H8285 has a conversion dynode that efficiently converts input ions into electrons. These electrons are then guided to strike the phosphor surface where they are converted into light. This light is then detected and amplified by a photomultiplier tube with a unique vacuum envelope. These design features ensure that the H8285 ion detector will have a long service life.



▲H8285

SPECIFICATIONS

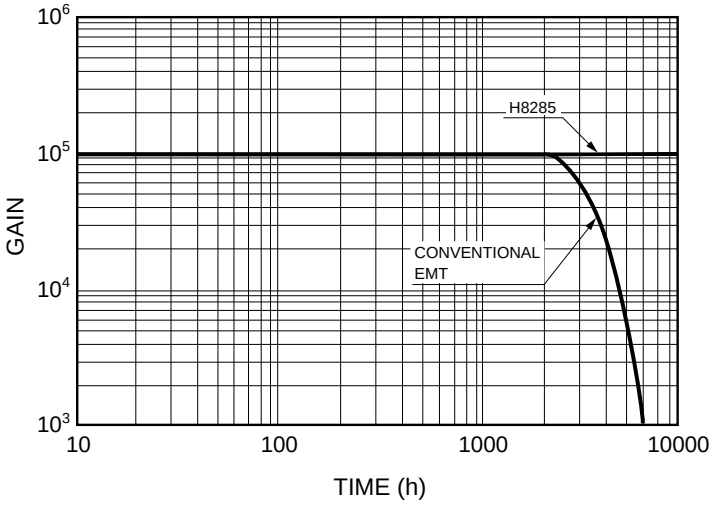
●Conversion Dynode

Maximum Operating Vacuum Level	Below 1×10^{-2} Pa
Maximum Supply Voltage (DC)	-7000 V

●Photomultiplier

Averaged Maximum Output Current	25 μA at -1000 V
Maximum Supply Voltage (DC)	-1000V
Total Built-in Resistor Value	Approx. 2 MΩ

LIFE CHARACTERISTICS



A technical document with detailed information on these ion detectors is available. Feel free to let us know your e-mail address and we will send you this information.

HAMAMATSU

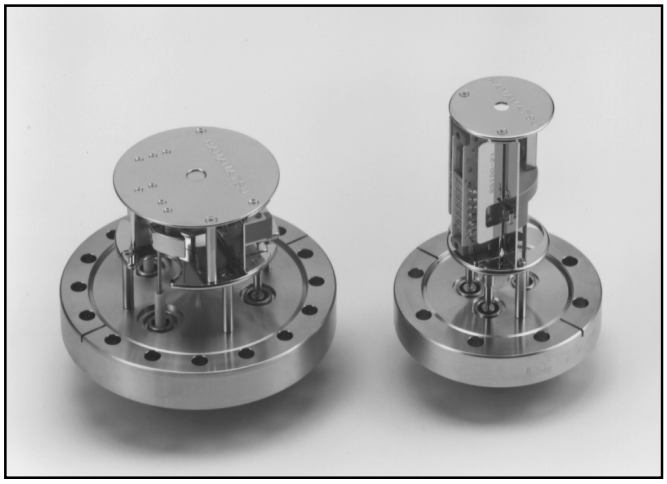
For GC-MS

POSITIVE ION DETECTORS R5150-60, R5150-70

Unprecedented High Sensitivity!

OVERVIEW

The R5150-60 and R5150-70 ion detectors deliver greatly improved sensitivity especially for high mass numbers when used with a mass spectrometer. This high sensitivity was achieved by the electrode design that allows applying a high voltage to a conversion dynode to increase the input ion energy. Sensitivity was further enhanced by using optimized ion and electron trajectories to achieve a peak intensity even when detecting only small amounts of a sample. The R5150-60 and R5150-70 are also designed to minimize detection of noise components generated from the ion source, so the base line noise level has now shrunk to an acceptable level.



▲Left: R5150-70, Right: R5150-60 (Flange is option)

SPECIFICATIONS

Parameter	R5150-60	R5150-70

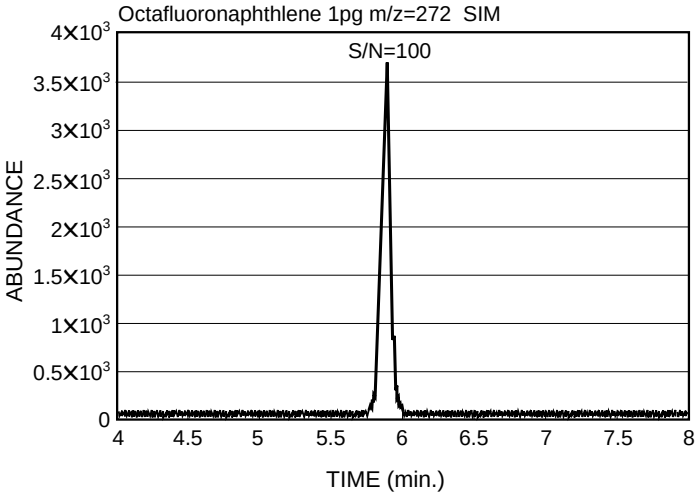
●Conversion Dynode

Maximum Operating Vacuum Level	Below 1×10^{-2} Pa	
Maximum Supply Voltage (DC)	-10000 V	-7000 V

●Electron Multiplier

Maximum Operating Vacuum Level	Below 1×10^{-2} Pa
Minimum Multiplication at 1500 V	1×10^{5}
Maximum Operating Multiplication	1×10^{8}
Maximum Supply Voltage (DC)	-3000 V
Total Built-in Resistor Value	Approx. 18.5 MΩ
Number of Dynode Stages	

SAMPLE DATA



HAMAMATSU HOMEPAGE URL http://www.hamamatsu.com
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