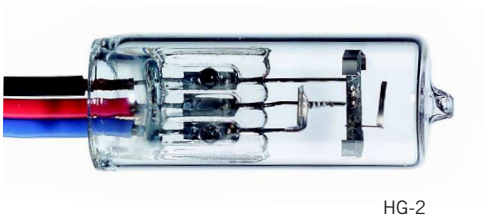


HG-2

HG-2 Lamp – Features

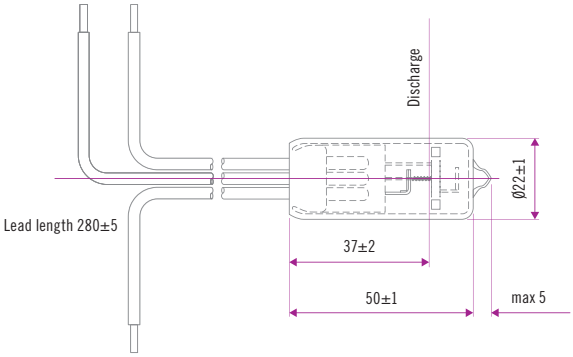
Heraeus has developed a compact low pressure, low voltage Mercury vapour lamp type HG2, principally for use in scientific instrumentation.

This lamp has a highly stable output predominantly at the 253.7 nm Mercury line. When use with the Heraus C430 power supply the line output is much higher than, and the stability comparable to, that of a Deuterium lamp. Other lines, which total 20% of the output, are at 313 nm, 365 nm, 404 nm and 435 nm.

The HG-2 has a strike voltage requirement of just 21V and a typical power requirement of 2.7 Watt, making this lamp especially suitable for use in portable instruments.

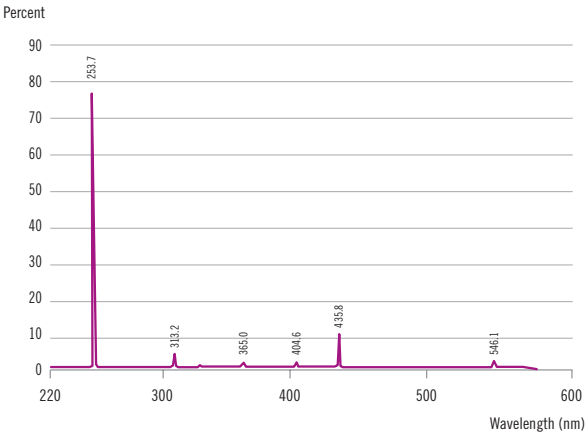
Lamp Mounting

It is advisible that the lamp should be mounted with the base and leads uppermost. Any clamp around the lamp envelope should be at the base end of the lamp. The clamp should be of low thermal capacity and poor thermal conduction. If the mount is such that it cools the lamp significantly Mercury can be condensed in this region adversely affecting the performance of the lamp. The lamp, which is temperature sensitive, must be protected from draughts if optimum stability is to be achieved.



Dimensional Outline HG-2 Lamp

Spectrum HG-2 Lamp



Specifications HG-2 Lamp

Lamp Type	**HG-2**
Part number	80017485
Wattage (W)	2.7
Ignition voltage (V)	21 max
Lamp voltage (VDC)	8-14 @ 150 mA
Lamp current (mADC)	100-300, 150mA recom
Lead length (mm)	280
Base	without
Filament voltage warm-up (VDC)	5-7
Filament running voltage (VDC)	3-4.5
Filament current warm-up (mADC)	400 @ 6V DC
Filament run current (mADC)	250 @ 3.5 V DC
Output at lamp surface@254 nm	15 mW/cm² with 150 mA anode current
Output at lamp surface@254 nm	30 mW/cm² with 300 mA anode current
Lifetime@150mA	4000 h typical
Power supply	C430B2
Part no. power supply	80017411