

# DEUTERIUM ARC LAMP - P705

## UV Light Source for Spectroscopy – 3 volt

### Instrument

Aktec / Beckman / Biorad / Joyce Loebel / Kontron  
LDC / Varian / Waters / Saitron / Spectra Physics / Turner

### Electrical

Filament/Heater Voltage	Start	3.0 VDC
	Operating	1.5 - 2.0 VDC
Filament/Heater Current		4.5A Max
Discharge/Arc Voltage	Strike	@25° > 350 VDC
	Operating	60 - 90 VDC
Discharge/Arc Current		10 - 300mA
Terminals		Spade Terminal

### Optical

Window	UV Transmitting Borosilicate
Aperture type	1mm Circular
Wavelength range	185nm - 400nm
Noise	< $1 \times 10^{-4}$ Absorption units
Drift	< $3 \times 10^{-3}$ Absorption units

### Operational life

When radiant energy reaches 50% of the initial energy. Typical life 2000 hours  
Deuterium lamps are guaranteed for a period of one year from date of delivery or 2000 hours usage, which ever comes first.

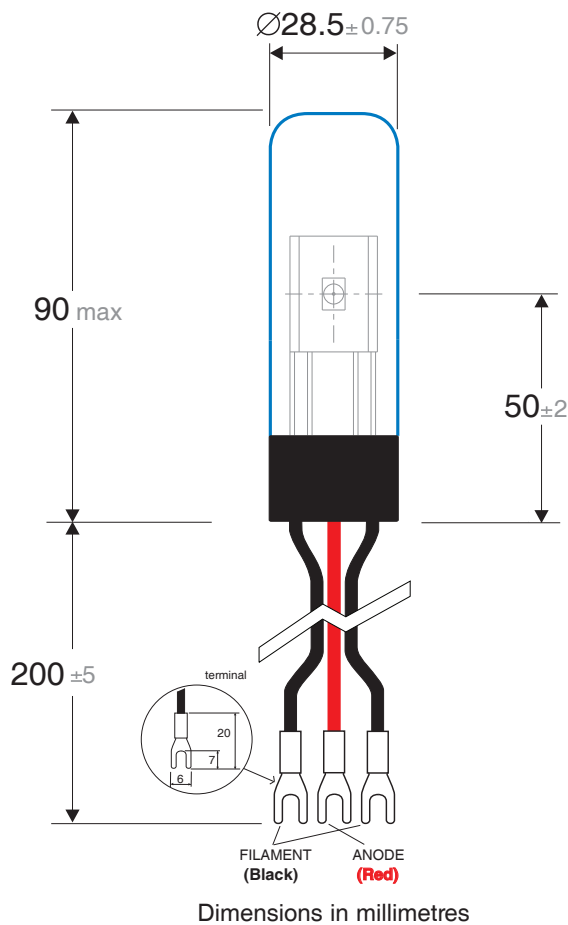
### Warranty

Free of charge replacement lamp will be provided where Photron is satisfied the following conditions have been adhered to.

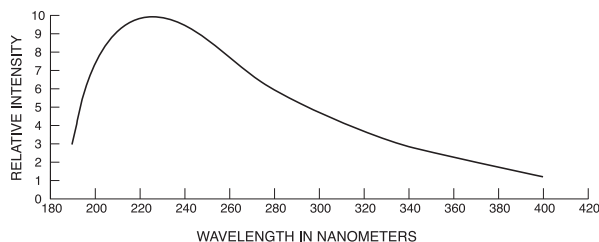
- Lamp is returned to supplier freight paid.
- Lamp has been operated within our recommended specifications.
- Lamp has not failed due to accidental, misuse or transit damage.
- If a replacement lamp is supplied the validity of guarantee shall commence from delivery date of original lamp.

### Precautions for use

- Do not subject the lamp to mechanical shock.
- Ensure glass envelope is free from foreign material. Lamp may be wiped using alcohol liquid.
- Caution! UV transmitting window is very thin. Handle with care.
- Care must be taken not to contact lamp with bare hand, temperature can reach over 200°C during operation.
- UV Radiation is harmful to the eyes. Do not observe light output directly.
- Deuterium lamps operate at high voltages. Extreme caution is required to prevent electrical shock.



### Spectrum of Deuterium Emissions



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