

EPS Range Calibration Guide

EPS 20mA Series EMC & LVD Tested Models

- High power factor and low electromagnetic disturbance measuring up to EMC standards.
- Complies with Earth-Leakage requirements in EN61347.
- Output over voltage protection.
- Fully sealed with resin, waterproof and suitable for both indoor and outdoor use.
- No mercury migration or "jelly-bean" effects.
- Automatically adjust to tube length (including electrodes) from short circuit to the maximum value listed in the chart below.

Model	Diameter	10mm	11mm	12mm	13mm	15mm
	Gas Pressure (mm Hg)	13	12	11	10	
10kv 20ma	Load length Neon Gas (metres)	7.5	9	11	12	14
	Load length Argon / H Gas (metres)	9	11	12	14	16
6kv 20mA	Load length Neon Gas (metres)	5.1	6	6.9	7.5	9
	Load length Argon / H Gas (metres)	6	7.2	8.1	9	11
3kv 20mA	Load length Neon Gas (metres)	1.5	1.8	2.4	2.4	3
	Load length Argon / H Gas (metres)	1.8	2.1	2.7	3	3.6

Note: Deduct 1 ft or 0.3m for each pair of electrodes from above figures.

Maximum length in feet may vary according to HT lead length and environment. Footage for mercury filled tubes are based on operation in temperatures above 4°C(40°F). Deduct 25% of footage for operation below 4°C(40°F).

Do not exceed the maximum tube length prescribed in the 'Maximum Load Length' footage chart (overload), otherwise the performance or even the life of the power supply will be reduced.

2. Installation

- 1) Can be installed on either a metallic or non-metallic surface, free air flow should be ensured to provide adequate ventilation.
- 2) The overall length of the HT leads should be less than 6 feet (2m), and always keep a minimum of 1 inch (25mm) between each cable and any metallic surface.
- 3) When using more than one power supply to illuminate a sign, please keep at least 3 inches (75mm) between power supplies. Never cross HT leads over the unit itself, or cross HT leads with HT leads, or the mains supply leads. It is preferable to make the HT output leads as short as possible, and as equal in length as possible.
- 4) Installation shall be in conformity with local electric code.