

SureFire™ II Igniters & Pilots



Portable High Energy Hand-Held Spark Igniter (Battery Powered) HEP-2 / HEP-2-Zxxxx

**Designed for safe hand operation
for ignition of gas burners**

The portable High Energy Spark Igniter (HEP-2) includes an electronic 2kV ignition module powered from an internal battery pack and an integrated mains power charger. The unit is designed for safe hand operation for ignition of gas burners in a range of applications which include refineries and furnaces. It may also be used to light small No. 2 oil burners.

The portable device is equipped with a pushbutton to start the sparking system. To prevent accidental ignition, it is necessary to first turn the unit on, then to operate a separate pushbutton. The unit will spark until the button is released.

The ignition electrode is available in various lengths: 0.5 m (HEP-IR 0.5), 1.0 m (HEP-IR 1.0) and 1.5 m (HEP-IR 1.5).

The unit is supplied with a nominal charge level, and should be charged by connecting to the mains supply for approximately one hour before use. The internal display shows the charge level.

The portable high energy spark igniter includes:

- 1x power cable with EU/NA adapter; provides connection to 100 to 240V 50/60Hz
- 1x distance ring; optional item, used to set the electrode insertion depth
- 1x carrying strap



SUREFIRE™

- 1x high energy igniter pack with igniter cable and handle
- 1x set of internal batteries

Note: The ignition rod is not included and must be ordered separately.

Features

- Selectable voltage (115/230 VAC)
- Visual indication of spark operation
- Proof of spark relay
- Choice of system: Integrated Kit or Kit with Quick Disconnect
- Thermal cutout protection integrated in transformer
- Compact coaxial retractors
- Safety bleed resistor discharges capacitors in 120 seconds
- Also available in hazardous area version (HEP-ATEX)



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Specifications

Ignition Voltage	2 kV
Ignition Frequency	3 pulses / sec
Maximum Ignition Duration	30% ED
Ignition Energy / Pulse	4 joules
Maximum Current Consumption During Charging	1.0 A
Supply Voltage (for charging the batteries)	100-240V, 50/60HZ
Operating Time	Approximately 1 hour
Charging Time	Approximately 2 hours
Protection Class of the Housing	IP54
Permissible Operating Temperature for Control Unit	-20°C to +65°C
Permissible Operating Temperature for Ignition Electrode (tip)	+650°C Briefly up to +800°C
Control Unit Dimensions (LxWxH)	210 x 120 x 90 mm
Housing Material	Die-cast aluminum, powder-coated
Weight	HEP-2 (remote ignition lance): approximately 3.5 kg (varies depending on ignition tip length) HEP-2-Zxxxx: approximately 2.7 kg (varies depending on ignition tip length)
Possible Ignition Tip Lengths	HEP-2: 525, 825, 925, 1025, 1125, 1225, 1325, 1425 or 1525 mm (length with ignition tip ZS-K) HEP-2-Zxxxx (instead of xxxx): 0700 for 700 mm or 1000 for 1000 mm (length with ignition tip ZS-K)
Diameter Ignition Electrode	16 mm

Typical Applications

- Petrochemical and refineries
- Heaters and reformers for metal industries and kilns
- Power burners in steam-raising plants
- Direct and pilot ignition for the paper industry
- Black liquor boilers

For more information, please [contact](#) your local Fireye Distributor.

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