



## LAMTEC High Energy Igniters

**HEI 500**

**HEI 600**



Sensors and Systems for Combustion Engineering

[www.lamtec.de](http://www.lamtec.de)

# LAMTEC High Energy Igniters

## BASIC HEI500 and High-End HEI600

### Application

- Ignites liquid and gaseous fuels in burners of any capacity
- Compact design: Control unit and ignition lance form one unit
- 100% waterproof
- Suitable for Class 3 especially according to NFPA 8501/8502 for electrical ignition devices
- Available for Hazardous Areas
- High spark intensity even with long ignition lances

## BASIC HEI500

### Technical Data

- |                         |  |
|-------------------------|--|
| ■ Ignition energy:      | 18 Joule                                       |
| ■ Ignition frequency:   | 2 Hz   |
| ■ Power supply:         | 115/230 VAC 50 Hz (60 Hz on request)           |
| ■ Ambient temp.:        | -40 °C ... +60 °C                              |
| ■ Input power           | 110 W (at 2 sparks per second)                 |
| ■ Explosion protection: | Ex-Zone II for electrical power unit available |
| ■ Degree of protection: | IP65   |



Steel or sheet steel housing  
with control unit



Ignition lance

# High -End HEI600

## Technical Data

- Ignition energy: 10 Joule
- Ignition frequency: 26 Hz
- Power supply: 115/230 VAC 50 Hz (60 Hz on request)
- Ambient temp: -40 °C ... +60 °C
- Input power 724 W (at 26 sparks per second)
- Explosion protection: Ex-Zone II for electrical power unit available
- Degree of protection: IP65 / IP66



Cast steel housing with control unit and ignition lance

Table, comparison of high energy igniters

	HEI500	HEI600
Energy [J]	18	10
Sparks/sec. (frequency) [Hz]	2	26
Ignition power/ sec. (max) [J]	36	260
Power supply	115/230 VAC 50 Hz (60 on request)	115/230 VAC 50 Hz (60 on request)
Ambient temperature	-20 ... +60 °C / -4 °F ... 140 °F	-20 ... +60 °C / -4 °F ... 140 °F
Explosion protection	IP65 safe area	IP65/66 safe area
Fuels	Gas without moisture and contamination as LPG or LNG	All types of gas, LFO, HFO up to No. 6 Bunker C (HFO analysis required)

# Ignition lance

## Technical Data



- |                                 |                    |
|---------------------------------|--------------------|
| ■ Available length:             | Up to 13 m*        |
| ■ Minimum length:               | 300 mm             |
| ■ Additional length:            | 300 mm (each)      |
| ■ Outer Diameter:               | 16 mm              |
| ■ Easy to replace ignition tip: | Standard + special |

\* at overlength the parts are also partly rigid partly flexible

# Retraction device

## Criteria for the use of the pneumatic retraction device

- |  |   |
|--|---|
| ■ Ignition lance is permanently exposed above 600 °C   | ■ The ignition tip is exposed at permanent temperature of above 1.000 °C (special ignition tip) |
| ■ The ignition tip is exposed at permanent temperature of above 720 °C (standard ignition tip) | ■ High pollution in the combustion  |



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