



High energy portable ignitors

ITAS can supply this device in a explosion proof enclosure, to facilitate ignition burner operations lacking its own ignition system. The device is also a good resource in case of emergency or break-down of installed ignition systems.

Compared to the previous model, this power supply feeder delivers discharge power more than double – 18J instead of 8J – allowing also the ignition of more difficult fuel without suffer the most uncomfortable conditions of use (moisture, oxidation and deposits).

Key features

- 2 Powerful 18-Joule shocks every second
- Autonomy of operation of about 800 cycles with a full battery charge and in good condition
- Power connector for recharging the battery
- Connecting cables and ignitors length on request.

Technical data

• Feeder unit

- Supply voltage: 12 VCC
- Output: 3000 VCC
- Energy: 18 Joule
- Frequency: 2 Hz
- Power supply: 150 W

• Battery charger

- Power: 115 or 230 VAC
- Output: 13.5 VCC
- Charging current: 500 mA

• Enclosure

- Eexd IIC T5 – IP65
- Material: aluminium alloy
- Dimension: 250x210x200
- Weight: 7 kg

• Ignition cable

- Flexible armoured cable
- Fittings ½" NPT C/W coupling 3 pieces
- Max temperature 250 °C
- Weight for meter 0.4 kg
- Length on request

• Ignitor

- Stainless steel AISI 310
- Max operating temperature 1000 °C
- Weight for meter 0.8 kg
- Length on request
- Diameter std. 17 mm, on request 14 mm
- Interchangeable tip
- Rubber grip or angle on request
- Flange retention on request
- Electrical connection by junction box

ITAS Pilots and Ignitors



EP/ВВ/01120

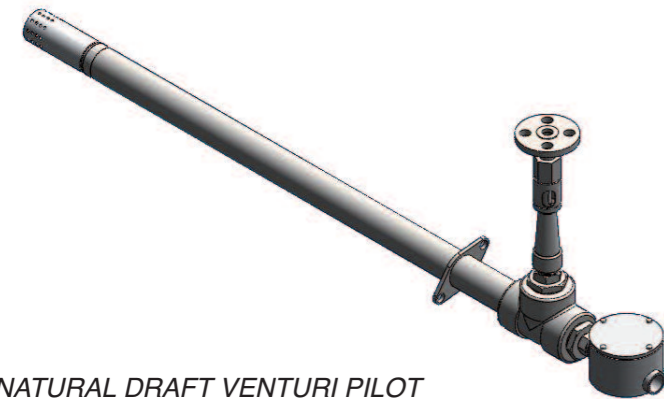


ITAS pilot and ignitors

Pilot burners provide a source of ignition and assist in stabilizing the main burner flame throughout all operating conditions.

Pilot burners are safety devices, used to prevent unsafe mixtures from igniting in areas other than the desired combustion zone.

Pilots can be intermittent or continuous, in that case re-ignite and sustain combustion of a main burner over its full operating range. Ignitors provide a safe method of lighting pilots.



NATURAL DRAFT VENTURI PILOT

Natural draft premix pilot burners

Applications
 Main burners of process fired heaters, furnaces, boilers, incinerators and power plants.

- Key features**
- High tension ignition
 - High energy ignition
 - Stainless Steel 310 retention head
 - Self-inspiring air supply by venturi mixer
 - No air supply line required
 - For all kind of gases and pressures
 - Integrated spark plug and ionization rod
 - Eexd J. Box for rod connection

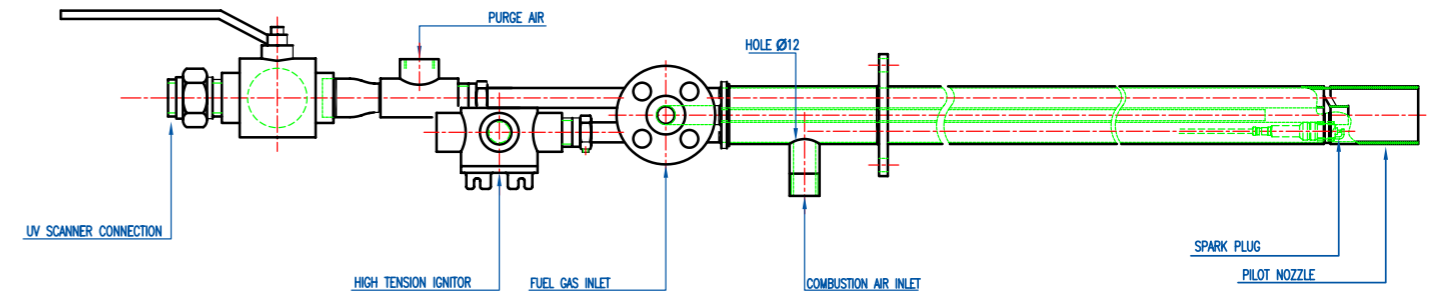
NATURAL DRAFT PILOT 20 KW OPERATING DATA		
	METHANE	LPG
Fuel gas flow rate	1,7 kg/h	2,1 kg/h
Gas pressure required at orifice	0,5 barg	0,35 barg

Forced draft premix pilot burners

Applications
 Main burners of process fired heaters, furnaces, boilers, incinerators and power plants.

- Key features**
- High tension or high energy ignition
 - Stainless Steel 310 retention head
 - Forced air supply
 - Air supply line required
 - Insensitive to pressure fluctuations and moisture
 - For all kind of gases and pressures
 - Integrated spark plug and ionization rod
 - Eexd J. Box for rod connection
 - Rugged design

FORCED DRAFT PILOT 25 KW OPERATING DATA		
	METHANE	LPG
Fuel gas flow rate	2,1 kg/h	2,7 kg/h
Gas pressure required at orifice	0,95 barg	0,90 barg
Combustion air flow rate	36 kg/h	40 kg/h
Air pressure required at orifice	0,9 barg	1,1 barg



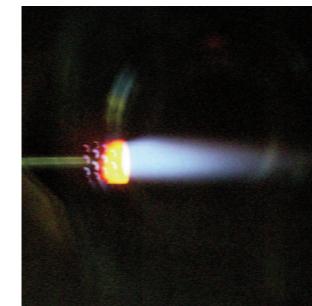
High intensity forced draft pilots

For safe ignition and supporting of main flames burner.

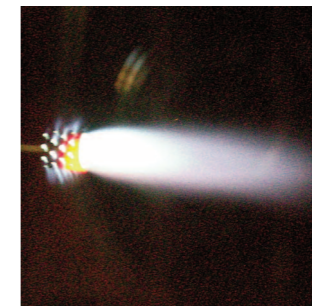
High flame stability by splitting of primary premix and secondary zone. High capacity from 25 to 70 KW. Firing all refinery and natural gases as well as propane/butane.

Inner guided and protected ignition and flame detection ionisation rods. Self-earthing robust connectors and cables for high voltage up to 15 kV.

Easy handling of gas spud without removal of pilot body. Available with large volume air filter against dust and pollution.



METHANE PILOT FLAME



LPG PILOT FLAME

Pilot ignition ionization system control device

ITAS Standard Pilot System control device includes:

- High tension spark rod with ceramic insulators located inside pilot gas lance
- High tension Ignition Transformer
- Ionization Signal Amplifier
- Electric Explosion Proof enclosure for both amplifier and transformer
- Ignition insulation cable between transformer and spark rod, 10 mt length as standard, with cable glands.

Upon request armoured cable is available.

ITAS profile

ITAS S.p.a. is an engineering company designing and supplying, amongst many other products, burners and accessories for combustion system as well as entire turn-key combustion plants.



IGNITION TRANSFORMER AND IONIZATION AMPLIFIER INSIDE EExd BOX



FORCED DRAFT PILOTS