

PROMETHEUS 2000/2500

DATA SHEET

Description

PROMETHEUS is an igniter power system for gas turbines. In conjunction with standard surface effect spark plugs it produces an intense spark every half of a second while energised from a nominal 24 VDC battery power supply.

Energy conversion and utilisation in the spark plug is very high and compared with alternative high energy systems the spark projects out from the tip of the plug therefore providing more margin for successful ignition with regard to air: fuel ratio and pressure.

This is especially the case on liquid fuelled turbines with pressure atomised burner nozzles. PROMETHEUS provides 4 high energy outputs with 2 sparks per second pulsing rate. It is possible per spark by linking output channels together, but it does reduce the number of available channels.

PROMETHEUS is certified flameproof for installation in Zone 1 hazardous areas (all gas groups)

Applications

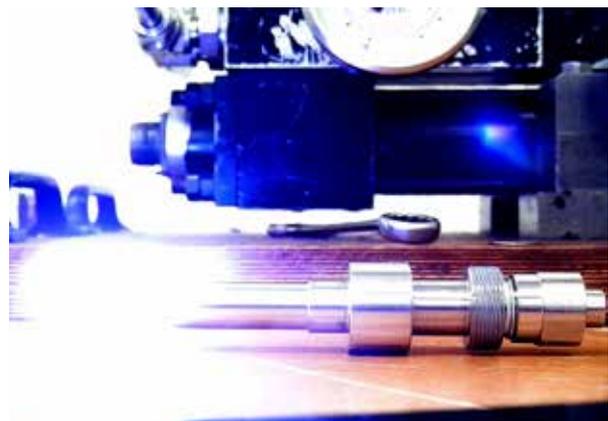
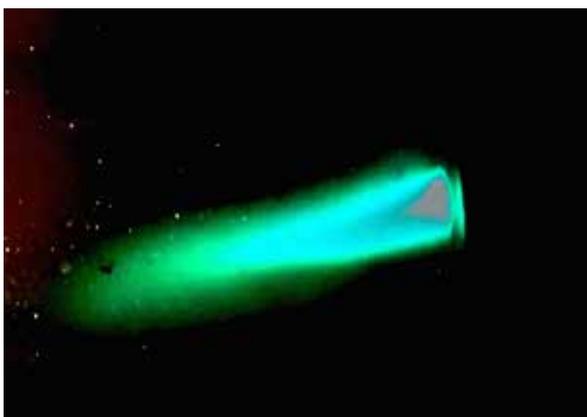
- All types of gas turbines
- PROMETHEUS 2000/2500 spark performance

Features

Highly efficient conversion Intense spark

No lifetime limited parts used

24 VDC nominal battery supply



Technical data

Designation	PROMETHEUS 2000/2500
Energy per spark	PROMETHEUS 2000 4.7 J per channel PROMETHEUS 2500 7.5 J per channel
Spark output voltage	2000 V / 2500 V
Spark frequency	2 sparks per second
Power supply voltage	Nominal 24 VDC +/- 20 %
Current consumption	2,5 A average (peak 11.5 A) – 20 A rated power supply is recommended
HT cable entry	4x M20 holes
Power supply cable entry	1x M20 holes in the centre of entry lid
Method of cable termination	Screw terminals for power supply max 2.5 mm ² Spark plugs – 3x M8 studs (PL 1, PL 2, PL 3, PL 4 (+) PL 5 (COM))
Certification	Flame proof Z one 1, all gas groups
Weight	11.5 kg
Operating temperature	-20 ... +85 °C

Dimensions

