



SGE-090

Ignition System

High Energy Ignition System with Integrated Protection, Indication & Feedback Signal

Features

- Compact and Portable
- Suitable for Variety of Liquid and gas Fuel
- Ignition Feedback Signal (dry Contact relay)
- High Reliability of Function & Protection
- LED Status Indicator
- Multi Functional Control System

Applications

- Power stations
- Chemical industry
- Refineries
- Cement plants
- Waste incinerators
- Steam generators
- Heating plants
- Claus plants

Sepanta Electronic Tabarestan

4713817166, Block 6, Ashrafi 10th
Babol, Mazandaran, Iran.

Tell: +98 11 32394723
Fax: +98 11 32203248
Mobile: +98 912 504 4973

Email: info@set-control.com
Web: www.set-control.com



Functional description

When SGE-090 gets the signal to make spark, a high-voltage capacitor is discharged and the spark is created at the tip of ignition lance. The spark discharge is triggered by a non-wearing switch (thyristor) and transfers an energy of up to 4.5 Joule by arc, at a maximum ignition frequency of 20 sparks per second.

There are Ignition feedback signals as the LED at the device package and the dry contact relay output to the control room. At the maximum ignition frequency of 20 sparks per second, maximum ignition energy of SGE-090 is 90 Joule.

SGE-090 Operational Specification

Input Voltage	115VAC or 230VAC 50/60Hz	Output Voltage	1000 ... 1500VDC
Max Power Consumption	150VA	Spark Frequency	Max 20 Sparks/Second
Working Time	30 sec ON, 60 sec OFF max 3 times	Spark energy	2 ... 4.5J
Ignition Relay	SPDT (230 VAC, 7 A)	Ambient temperature range	-40 ... +60°C

SGE-090-000-??

SGE-090 Ordering Code	
Code	Description
000 (Power Supply)	115: 110VDC or 115VAC 230: 220VDC or 230VAC
?? (housing)	H1: Standard housing

SRE Ignition Lance

After the high voltage capacitor begin to discharge, there must be a route up to Ignition location for spark. SRE Ignition Lance play this role for SGE-090 Ignition System. SRE-LT1 is the "Sepanta Electronic Tabarestan" Standard Type of Lance and has specifications as below table. SRE-LT1 Ignition Lance has the standard dimensions but also, can be ordered in many different physical dimensions as below ordering table



SRE - LT1 Specifications

Diameter	21.20 mm (1.2")
Length	625.4 mm
Ignition Tip	SS310
Ignition Body	SS304
Electrical Connection	M10*1.5, High voltage cable (S2)
Lifetime	100,000 sparks

SRE - LT1-LLL-DD

SRE-LT1 Ordering Code	
Code	Description
LLL (Lance Length in cm)	LLL (Lance Length in cm)
DD (Lance Diameter in mm)	DD (Lance Diameter in mm)