

F W M U R P H Y

IntelliSpark®

Intelligent Ignition Control System



Maximized performance for spark-ignited
natural gas engines



IntelliSpark® – Optimize Your Engine with FW Murphy’s Powerful Solution

As a key component in FW Murphy’s flagship EICS solution, the IntelliSpark ignition system provides complete control of how your engine is running. Extract the IntelliSpark power and leverage its dominant technology to ensure your system is working at optimal performance.

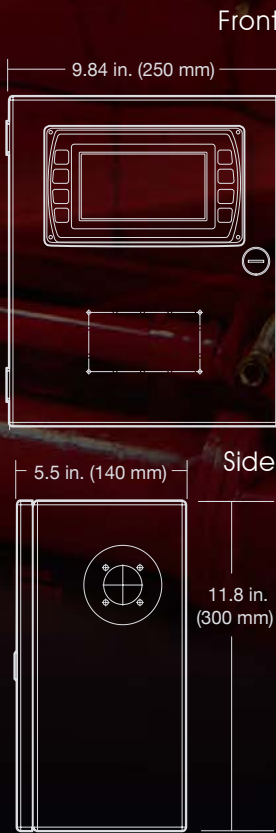
Full-color, easy-to-read screens allow technicians to monitor all the variables and easily detect problems at a glance. See key data and know if you are dealing with a bad spark plug, low power cylinder or a part that is failing. Know the problems that need attention and see potential problems before they cost you time and money. The IntelliSpark system utilizes FW Murphy’s Smart Coil™ technology providing real-time ignition energy measurements.

The IntelliSpark product line includes some of the most advanced ignition controls available and the most user-friendly interface. Simply select your engine along with your desired timing option. Then see your modernized engine run at top performance.

This advanced system allows you to reduce fleet engines parts inventory with common coils as well as minimize training requirements with intuitive screens.

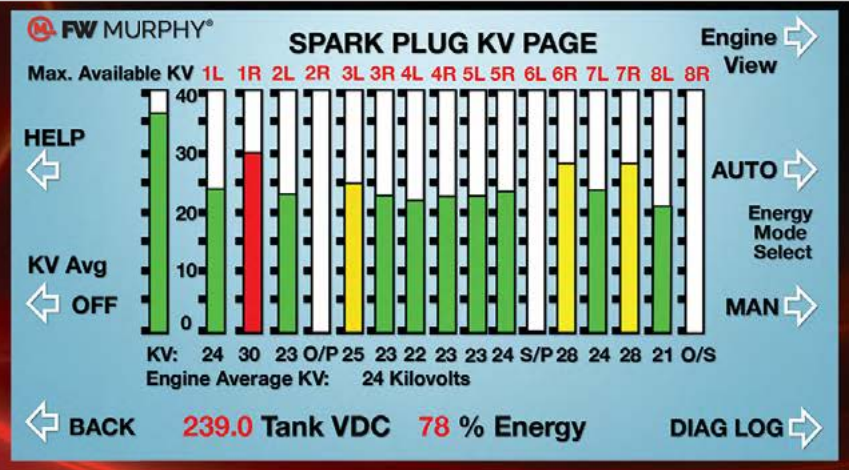
Solve engine management worries with the IntelliSpark system. Optimize your bottom line with true ignition energy measurements; accurate prognostics and diagnostics; and reduce unplanned downtime.

- Power Requirements:
 - IS-16/8: 10-30 Volts (12/24 VDC nominal), 3.0 Amps max.
 - IS-32: 10-30 Volts (12/24 VDC nominal), 6.0 Amps max.
- Environment:
 - Temperature Operating Range: -4 to +158 F (-20 to +70 C)
 - Enclosure Rating: IP67, with enclosure-mounted display
 - Enclosure Rating: Type 4 without display mounted
- Energy Storage:
 - 180 mJ maximum, per tank capacitor
- Output Electrical Specifications:
 - IS-8: Fires 8 outputs, Single tank capacitor
 - IS-16: Fires 16 output, Dual, alternately fired tank capacitors
 - IS-32: Fires 32 outputs, 2 outputs can fire simultaneously, Quad, alternately fired pairs of tank capacitors.
- Maximum Output Current Pulse Rating: 40 Amps
Note: Current pulse amplitude depending on the coils used
- 4/20 mA Inputs:
 - 4/20mA A: Programmable to retard timing when schedule A is active
 - 4/20mA B: Programmable to retard timing when schedule B is active
- Communications:
 - IS-8/16: Available auxiliary comm port, RS-485 interface, Modbus protocol. Port has user programmable slave ID 9600 baud (19.2K)

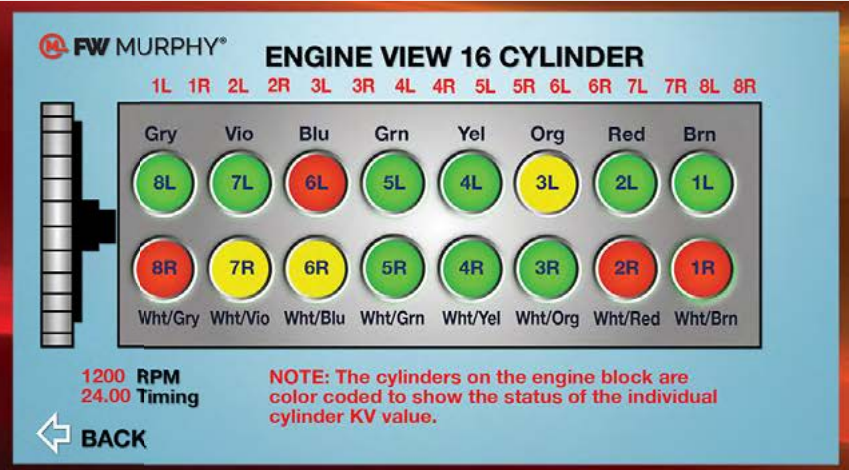


High resolution display – power at a glance

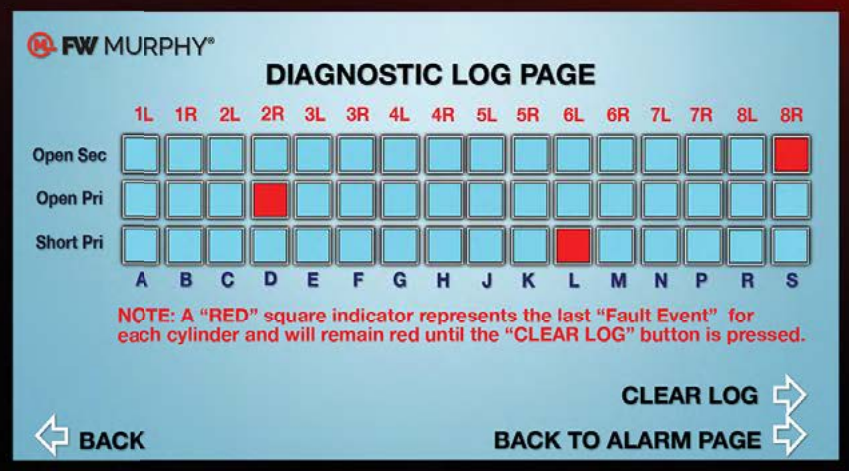
The easy-to-read 4.3-inch color display is highly durable. It features a full-color LCD and offers best-in-class sunlight readability. Its rugged design is perfect for all types of environments.



Spark Plug Diagnostic Page



Engine Fault Event Page



Diagnostic Log Page

IntelliSpark ignition systems:

- Provide comprehensive engine management
- Extend maintenance intervals, reducing downtime
- Modernize engines to extend ROI



IntelliSpark® Ignition Controllers

Part No.	Model No.	Description	Class
72700256	IS-8	8-CYLINDER IGNITION CONTROL UNIT - NO DISPLAY	Z
72700252	IS-8D	8-CYLINDER IGNITION CONTROL UNIT - WITH DISPLAY	Z
72700257	IS-16	16-CYLINDER IGNITION CONTROL UNIT - NO DISPLAY	Z
72700253	IS-16D	16-CYLINDER IGNITION CONTROL UNIT - WITH DISPLAY	Z
72700258	IS-32	32-CYLINDER IGNITION CONTROL UNIT - NO DISPLAY	Z
72700254	IS-32D	32-CYLINDER IGNITION CONTROL UNIT - WITH DISPLAY	Z
72000004	PCB-8	PCB ASSY, IS-8, ONE-BOARD	Z
72000005	PCB-16	PCB ASSY, IS-16, ONE-BOARD	Z
72000013	PCB-16B	PCB ASSY, IS-32, B-BOARD	Z

IntelliSpark® Remote Display

Part No.	Model No.	Description	Class
72700249	PV450NV-03-CSA-IS	DISPLAY MODULE, IS	Z
78001106	PVW-450-PWR-50	CABLE, REMOTE, 50FT, IS	Z
78001107	PVW-450-RS485-50	CABLE, REMOTE COMMUNICATION, 50FT, IS	Z

Fuses

Part No.	Description	Class
00009771	FUSE, COILS, C520-5A, FAST-ACTING	Z
47000022	FUSE, (BAG OF 10) RELAYS-DISPLAY, BUSS, C520-2A, FAST-ACTING	Z

How To Order

To order a complete IntelliSpark® Ignition System, please contact a local FW Murphy sales representative to better server your specific needs.

Below is a list of FW Murphy Domestic and International Sales and Service locations. A Master Distributor can also be found by going to fwmurphy.com/wheretobuy/us-sales-distributors.

In order to bring you the highest quality, full-featured products, we reserve the right to change our specifications and designs at any time.

Specifications and performance data subject to change without notice. Certified specifications and performance data available upon request

MANUFACTURING, SALES & ENGINEERING
2151 RANDON DYER ROAD
ROSENBERG, TX 77471

SALES, SERVICES & SUPPORT
4646 S HARVARD AVE
TULSA, OK 74135

DOMESTIC SALES & SUPPORT
FW MURPHY PRODUCTS
PHONE: 918 957 1000
EMAIL: INFO@FWMURPHY.COM
WWW.FWMURPHY.COM

FW MURPHY CONTROL SYSTEMS & SERVICES
PHONE: 281 633 4500
EMAIL: CSS-SOLUTIONS@DOVERPRECISION.COM

INTERNATIONAL SALES & SUPPORT
LATIN AMERICA & CARIBBEAN
PHONE: +1 918 770 8775
EMAIL: INTERNATIONAL@FWMURPHY.COM



FM 668933 (Rosenberg, TX - USA)



FW MURPHY
PRODUCTION CONTROLS

