



SPECTRO-FLUX Engineering

Design, Engineering & Service Consultants

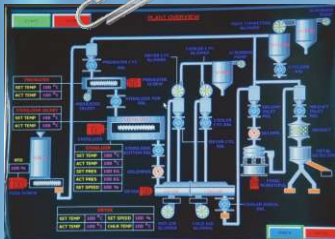
Spectro-Flux Engineering is a pool of experienced and efficient professional engineering resources with global availability providing services of the highest quality anywhere in the world...

Spectro-Flux Engineering (SFE) was evolved by a strong combination of highly experienced, self-motivated, enthusiastic, dedicated engineering and management professionals .

Specialist engineering services on

- Distributed Control Systems (DCS)
- PLC & SCADA
- Instrumentation panels & Control devices
- Field Instrumentation
- Hazardous area instruments
- Fiber Optics
- Information Technology (IT)
- Networking & Communications
- Control Application Engineering
- Advanced Control
- Building Automation
- Maintenance & Inventory Management for Instrumentation Product and Systems users/manufacturers

Alliances with engineering consultant firms around the world
Providing expert professionals for challenging assignments
Competitive in cost and quality
Comparable with International Corporate Standards



Industry Capabilities

Batch Applications, Cement, Chemical, Desalination, Fertilizer, Food, Gas Processing, LNG, Mining, Petrochemical, Pharmaceutical, Polymer, Power, Pulp and Paper, Refining, Semiconductor, Steel, Sugar, Tank Farm Automation, Terminal Automation, Textile, Water/Waste Water treatment

Company History

Spectro-Flux Engineering (SFE) was formed in the year 2000 in Singapore, by a group of highly motivated and enthusiastic group of engineers experienced in various industrial automation disciplines and have a well organized workforce capable of handling the various activities of a project in a turnkey basis or on a fit-to-need basis. We have full-fledged project engineering & system integration setup at Singapore and Bangalore in India.

Divisions/Departments

Design Consultation
Engineering
Instrumentation Products Support
System Integration - DCS/PLC/SCADA/TAS/IT
Project Management
Fiber Optics
Communications and Networking
Panel Engineering
Internet and Web Based Solutions
Advanced Optimization Solutions
ERP and Business Management Solutions
Site Support
Training
Documentation
Product representation and promotion
Value Added Reselling (VAR)

Providing a wide variety of technical strength worldwide...





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Panel Engineering Services

SFE possesses high level of expertise in Control Panel Engineering and manufacturing.

- Highly Skilled Engineers & Technicians
- CAD design facility
- Cabinets / Consoles for PLC, DCS & Shutdown Systems.
- Fibre Optic Termination Panels
- HMI / SCADA Panels
- Wall-mounted Network Cabinets
- Marshalling / Junction Boxes
- Intrinsic Safety Equipment Cabinets
- Switchgear, MCC, Relay Panels
- Custom Painting or Powder Coating
- Computer Generated Wire / Device Tags
- Custom Engraved Nameplates
- Point-to-Point Wire Testing
- Complete I/O Testing & Simulation
- Full functionality tests and quality testing



Spectro-Flux has well-equipped Panel Engineering, Staging and Factory Acceptance Test facilities at Singapore and Bangalore in India.

Spectro-Flux can take-up the project on a turn-key basis or build panels according to client's specifications and design drawings.

Our dedicated workforce is well-trained in International Engineering Standards/Practices and Quality Assurance procedures. We also offer complete I/O testing with Process Simulation using our own range of Signal Simulators.





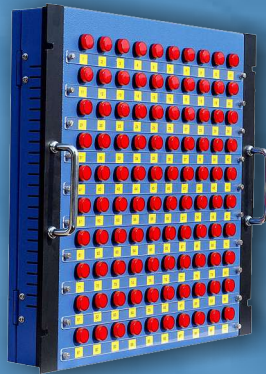
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Signal Simulation Products

Spectro-Flux Engineering designs, manufactures and supplies a wide range of Signal Simulators used for the functional testing and simulation of Analog & Digital Inputs and Outputs of a Digital Control System / Data Acquisition system such as a PLC or DCS.

- Industrial Quality
- 19" rack mountable
- Tabletop mountable
- PCB Based design
- Ease of maintenance
- Various combinations to choose from
- Standard or Custom designs
- Tested with most of the DCS/PLC/ESD



Spectro-Flux range of Simulators are extensively used by major DCS/PLC manufacturers as well as the end-users around the globe. We are specialized in providing custom-built solutions according to your design specifications. We also supply PLC training kits for educational institutions and test laboratories.

Range of Products :

1. 100-DI Simulator (Part# SFE-DIS-100)
2. 16-DI Simulator (Part# SFE-DIS-16R)
3. 100-DO Simulator, 24VDC (Part# SFE-DOS-100)
4. 100-DO Simulator, 110/220VAC (Part# SFE-DOS-VAC)
5. 16-DO Simulator (Part# SFE-DOS-16R)
6. 64-AI Simulator (Part# SFE-AIS-064)
7. 8-AI Simulator (Part# SFE-AIS-08R)
8. 4-AO Simulator (Part# SFE-AOS-004)
9. 2-ThermoCouple, 2-RTD, 2-PULSE Combo Simulator (Part# SFE-TRP-002)



Accessories :

1. 10m Pre-fabricated Cable with DB25 Connector 24VDC (Part# SFE-CAB-020)
2. 10m Pre-fabricated Cable for AC Simulator (Part# SFE-CAC-020)
3. SFE Simulator Pedestal 19" wide on wheels (Part# SFE-PED-19S)



SFE Simulator Kit supplied with Pedestal on wheels

Pre-fabricated cables and pedestals on wheels are supplied for better ergonomics and ease of interconnection. Simulators are available in different combinations of Analog Input/Output (4~20mA), Digital Input, Digital Output, Thermocouple inputs, RTD inputs, Pulse inputs etc. Wet/Dry Contacts, Loop Power/External power options are available in all the models. Stackable AI/DI/DO models have been provided with built-in 24VDC SMPS, Automatic relay switching for self/external powering modes & internal shunt resistors for line-monitoring applications.

We have specially developed these simulators for DCS/PLC Staging/FAT floors in the Industrial Automation field. All the simulators are 19" rack mountable and at the same time they could be used as table-top models as well. Ever since we developed the base models, lots of enhancements have been incorporated in the circuitry to make sure that they work with every control system out there. You may download the specification sheets from :

<http://www.spectro-flux.com/products.htm>



SPECTRO-FLUX Engineering

Expertise

DCS

ABB
Emerson
Foxboro
Honeywell
Yokogawa

SCADA

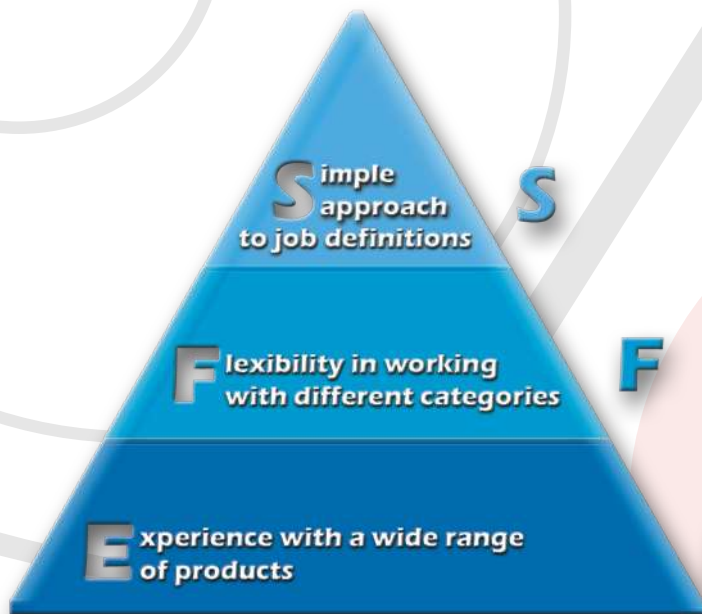
Cimplicity
CiTect
Factorylink
Honeywell Plantscape
ICONICS
ProFace
Intellution
Wonderware
RS View / Factorytalk

PLC

Allen Bradley
GE Fanuc
Honeywell SMS
Modicon
Omron
Siemens
Sixnet
Square D
Telemecanique
Triconex TMR
Yokogawa Stardom

Application Packages

Advanced Control Packages
Batch Packages
Fiber Optic solutions
Information Technology
Networking products
Plant Management applications
Management Information Systems
Terminal Automation
BMS, Surveillance Systems
Fire Alarm Systems



Mission Statement

To provide high quality competitive engineering services to worldwide customers within the framework of international quality and standards beyond clients' expectations, while maintaining the highest pride in values and responsibilities.

Vision

To emerge as a first level international engineering company.

Spectro-Flux Engineering Pte. Ltd.

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