

Spectrum Operator Interface

SOI-260 / DTAM™ PLUS

- Faster implementation and increased productivity with fill-in-the-blanks, easy-to-use programming software
- Wide range of operating environments with LCD or VFD display choices
- Less programming and reduced operator entry errors with auto-scaling and programmable operator entry limits (minimum and maximum values)
- Direct access to any register location within the PLC with P/AD feature
- Quick operator response and reduced downtime with alarm generation
- Controlled access with security screens
- Communication flexibility with direct or network communications to the PLC
- Rugged, high-quality products that are certified NEMA 4, 4x, 12, 13, IP65 UL & CSA Class 1, Div 2 and CE

The Spectrum Operator Interface provides workstation performance in a small, easy-to-use package. The SOI-260 and DTAM control program is developed with a fill-in-the-blanks software package, then the program is downloaded to the SOI. It's that's easy.

The SOI provides menu screens that can be linked together to provide a complete set of instructions for the operator to follow based on the application. Screen types include Programmable Menus, Data Entry, Data Display, Security, Bargraph, Recipe and Interactive Alarm. Advanced features include floating point entry and display, auto-scaling, programmable operator entry limits and printer forms.



The SOI also supports the powerful P/AD (Point/Access Display) feature. The P/AD feature allows access to the entire data register table within a PLC. An operator or maintenance person may access any register location by typing in the PLC address, very powerful for system start-up (debugging) and troubleshooting.

The SOI connects directly to the programmable controller or the PLC communications module and requires little or no programming within the PLC. The cost-competitive design makes it ideal for small stand-alone applications or for multiple operator stations in a large, distributed control system.

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DISPLAY SPECIFICATIONS

LCD

Technology LCD (twisted-nematic) w/LED backlight
Configuration 4 lines x 20 characters
Backlight settings 0, 33, 66 & 100% (via keypad)
Contrast ratio 10:1
Contrast settings Four (via keypad)
Max. viewing angle $\pm 30^\circ$ (h); -20 to +30° (v)*
Display (h x w) 1.0 x 3.0 in. (25 x 76 mm)
Characters (h x w) 0.19 x 0.12 in. (4.75 x 2.95 mm)

VFD

Technology.....Vacuum fluorescent (blue/green 505 nm)
Configuration 4 lines x 20 characters
Backlight settings ... 100, 85, 70 & 50% (via keypad)
Luminance 350 CD/M² nominal
Max. viewing angle $\pm 60^\circ$ (horizontal & vertical)*
Display (h x w) 1.30 x 3.90 in. (33 x 99 mm)
Characters (h x w) 0.2 x 0.12 in. (5 x 3 mm)

ELECTRICAL SPECIFICATIONS

User memory type (size) FLASH (8 or 40 KB)
Run LED.....Indicates logic circuitry is working properly
Alarm LED Indicates an alarm is present
Comm. port RS-422/485 or RS-232 (selectable)

Power requirements

P1.....15 to 23 VAC, 47-440 Hz or 20-30 VDC,
800mA max, 1 Amp fuse
(externally accessible) 250 mA max.
P2.....85 to 265 VAC, 47-440 Hz or
110-340 VDC, 300mA max, 1/2 Amp fuse
(externally accessible)

PHYSICAL SPECIFICATIONS

Dimensions (h x w).....7.6 x 5.5 (103.5 x 139.7 mm)
Depth.....1/8 in (45.7 mm)
2.1 in (53. mm) w/DeviceNet
Front panel (h x w).....8.5 x 6.5 in (216.4 x
165.5 mm)
Weight.....4.1 lb (1.9 kg) max

ENVIRONMENTAL SPECIFICATIONS

Operating temperature

SOI LCD0-50° C (32-113°F)
SOI VFD.....0-60° C (32-140°F)
Storage temperature....-20 to +85° C (4-185°F)
Humidity..... .5-95% RH (non-condensing)
Shock..... 30 G operating, 50 G non-operating
Vibration..2.5 G operating, 5 G non-operating
(5-2,000 Hz)

RatingsNEMA Type 4, 12, 13, IP65
Certifications UL/CSA Class 1, Div 2,
Groups ABCD

AVAILABLE PROTOCOLS

Allen-BradleyDF1, DH485
Modicon.....Modbus, Open Modbus
Siemens.....Simatic S5
Square D..... SY/MAX Models 300-700
IDEC.....FA Series
Omron.....Hostlink
Texas Instruments405

*Max vieing angle = angle at which contrast ratio ≥ 3

QUALIFIED DISTRIBUTOR

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