Trainer/Simulator

for the Solves-It! plug-in PLCs

- Compact space-saving design
- Hardware and/or software teaching aid
- Terminals for external I/O (parallel connected)
- Support for Digital & Analog Solves-It!
- Slide switches for digital input
- LED indicator lamps for digital output
- 11-pin socket for Solves-It! plug-in PLC
- Momentary push-button for counter input
- Potentiometer adjustment for analog input
- Class 2 - 12 VDC power supply included

The Trainer/Simulator boards are intended for use by industry and educators. Industrial use includes testing both proof of concept programming as well as final hardware programming on the bench rather than the machine to eliminate costly machine down time. Program development for Solves-It! plug-in PLCs or other PLC on a Chip® based products is greatly simplified. Other uses include continuing education for shop maintenance and/or technical personnel and initial training for new hires.

For educators, the Trainer/Simulator boards combined with the appropriate Solves-It! plug-in PLC provide an affordable training aid which can be applied at multiple levels. The EZ Ladder® programming software parallels IEC61131-3 thus making the combination an excellent tool for teaching PLC programming. Terminals on the board provide for input from external sensors like photo-electric and inductive proximity devices in addition to dry contacts. This will allow students to test hardware as well as software solutions.

Hardware Selection Guide

Feature	SI-DEMO-01	SI-DEMO-02
Mating Solves-It! Models:	Digital Models SI-100, SI-200	Analog Models SI-110, SI-210
Digital Inputs:	4 (Slide Switches on PCB)	4 Max (Slide Switches on PCB)
Type:	10-32 VDC sourcing	10-32 VDC sinking
Polarity Sensitive:	Reverse Polarity Protected	Reverse Polarity Protected
Push Buttons:	one	one
High Speed Counter Input:	1 (Using Input GP 1)	1 (Using Input GPIO 3)
Type:	Optically Isolated Count Up	Optically Isolated Count Up
Maximum Frequency:	25 KHz	25 KHz
Analog Inputs:	No	one (Single turn potentiometer on PCB)
Type:	N/A	10 VDC differential or 0 - 5 VDC, 10 bit
Digital Outputs:	4 (Red LEDs on PCB)	2 Min/6 Max (Red LEDs on PCB)
Type:	10-32 VDC sourcing, 300mA Max	10-32 VDC sinking, 300mA Max
Input Voltage:	10-32 VDC ~ 100mA + load current	10-32 VDC ~ 150mA + load current
Mounting: **Demo PCB**	Soft rubber feet allow desktop use	Soft rubber feet allow desktop use
Solves-It!	11-pin Octal Plug	11-pin Octal Plug

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Trainer/Simulator

for the Solves-It! plug-in PLCs

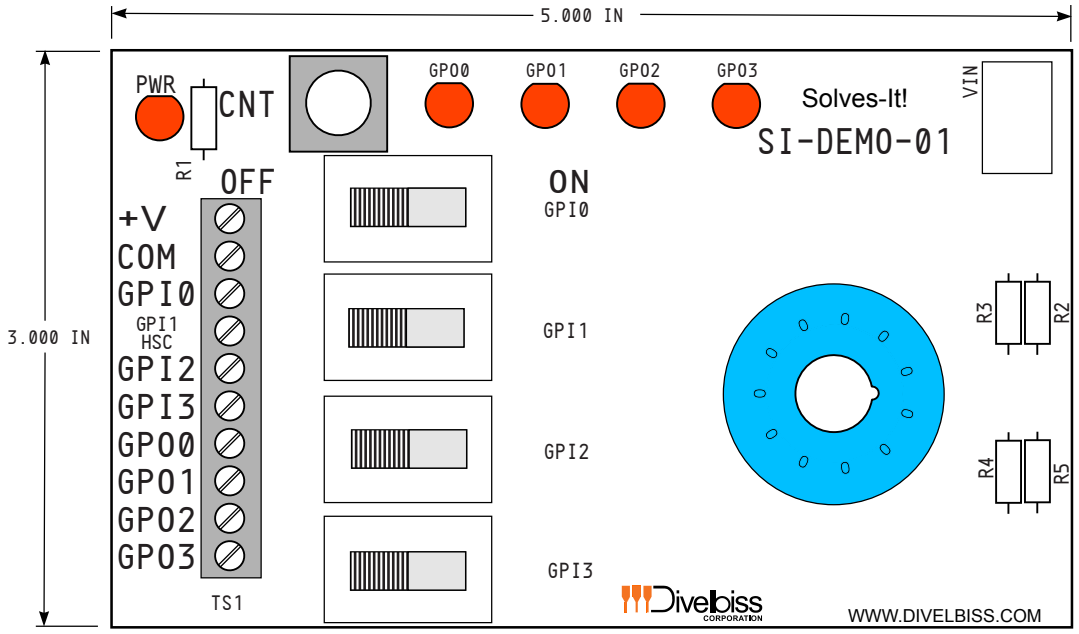
Circuit schematics for Trainer/Simulators are available for download from www.divelbiss.com in the User's Manual.

SI-DEMO-01

For use with models:

SI-100 - Digital

SI-200 - Digital

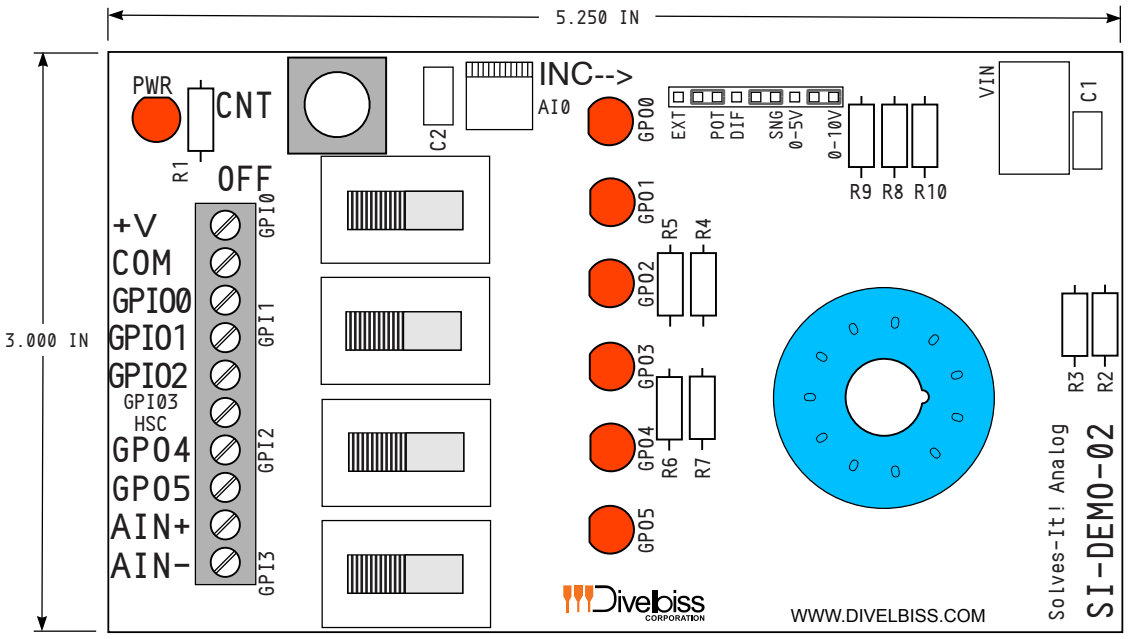


SI-DEMO-02

For use with models:

SI-110 - Analog

SI-210 - Analog



Programming Accessories

Description	Divelbiss Part #
EZ Ladder® Lite Software	EZLDCD-02
Solves-It! programming Cable	SI-PGM

Optional Hardware Add-ons

Description	Divelbiss Part #
24 VDC, 1.5a power supply - DIN rail mounted	130 - 105868
11-pin DIN/panel mount screw terminal socket	115 - 105328

NOTE: Specifications are subject to change without notice.

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