

SystempaK Loader Tool

Model J-SLD 90

1. Introduction

The J-SLD90 SystempaK Loader Tool (SPAK), which operates on a Windows PC, serves as the tool to set various parameters for the converter and arithmetic unit functions of the SPAK Modules (Digital Type), Model J-S**9 (J-STC90X, J-SRV95C, J-SCM92X, etc.).

The SPAK Loader Tool provides the following functions:

- 1) Via the SPAK J-S**9 Module and USB communication, the following processes are performed:
 - Setting of parameters for the signal conversions and arithmetic operations executed in the module
 - Reading of those parameters from the module
 - Monitoring of input and output signals to the module
 - Initialization of the module
- 2) Conversion and saving of module parameter setting values into for-save files (DAT files)
- 3) Reading of parameter setting values from those DAT files ^(Note)
- 4) Printing of the parameter setting values displayed on screen

Note that the SPAK Loader Tool cannot be used together with the previous J-S**80/85 digital SPAK Modules and J-S**50/55/60/65 analog SPAK Modules.

Note: The purpose of using a DAT file is to save and store settings set by the SPAK Loader Tool and to reuse the settings during use of a Module with the same settings or during breakdown replacement. Do not read a DAT file created or edited by a tool other than the SPAK Loader Tool, nor download it to a Module. These operations are outside the operational warranty scope.

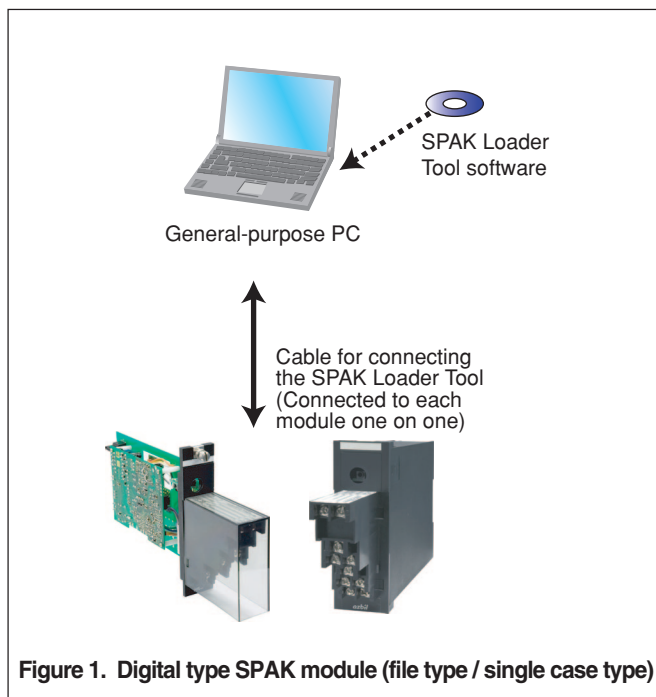


Figure 1. Digital type SPAK module (file type / single case type)

2. Model Number Table

Basic model number	Selections	Description
J-SLD90		CD-ROM for Windows PC ... 1 - SPAK Setting Tool software - USB cable driver software - Instruction manual (PDF file)
	-0	Without a connection cable between Loader Tool and SPAK ... Without
	-1	With a connection cable between Loader Tool and SPAK

Note: The connection cable for the SPAK Loader Tool is also available by the following model number: J-SLDC00.

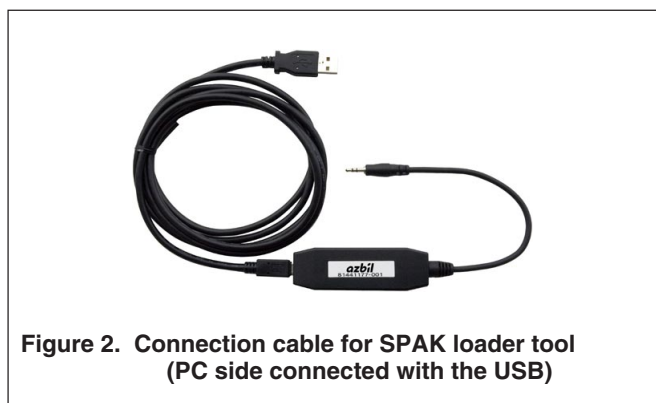


Figure 2. Connection cable for SPAK loader tool (PC side connected with the USB)

3. Operating Environment

Item		Description
PC	PC type	PC on which the following OS can operate, irrespective of whether desktop or notebook
	OS	Windows 2000 Professional / SP3 or greater, or Windows XP Professional
	CPU, memory	256 MB or more
	Hard disk capacity	Free space of 94 MB or more at the time of installation (88 MB is used as a .NETFrameWork1.1 portion)
Peripherals	Monitor	Resolution of 1,024 × 768 pixels or more
	Disk	CD-ROM drive: 1 drive or more (Used during installation)
	Printer	Printer compatible with the above
	USB port	1 port or more

Note: Set data to the SPAK Module is saved in the flash ROM.

The maximum number of times the flash ROM can be written is designated as 10,000.

4. Specifications of the SPAK Setting Tool Connection Cable

Item	Description
Cable length	1.8 m
USB connector	PC side: USB Azbil Corporation's unit side: 2.5 ϕ stereo plug
USB I/F standard	Compliant with USB Specification 1.1
Transmission speed	115.2 kbps or more
Current consumption	75 mA or less
Ambient temperature	0 to +50°C
Ambient humidity	10 to 90%RH (No condensation allowed)
Storage temperature	-10 to +60°C
Storage humidity	10 to 90%RH (No condensation allowed)
Mass	Approx. 80 g

5. Screen Layout and Example Views

5.1. Main Screen (during Startup) and Pull-down Menu

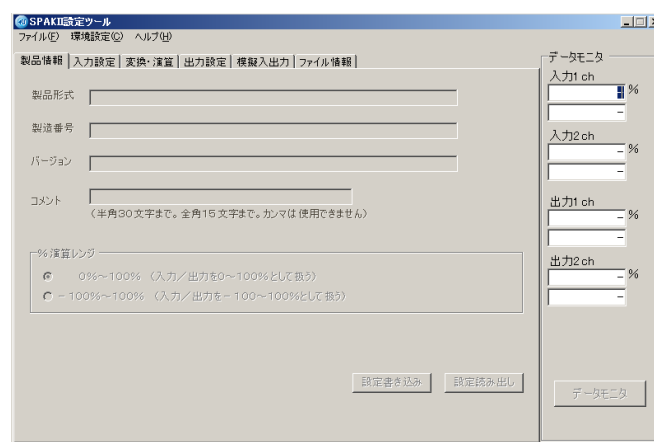


Figure 3. Main (during startup) screen

Main screen pull-down menu items

File	
Comm. Start -Read All Sata	Communicates with the Module, and obtains and displays setting values.
Comm. Start -Write All Data	Conducts communications to send setting values being displayed to the Module.
File - Open	Obtains setting values from a DAT file.
File - Save	Saves the setting values being displayed to a DAT file.
Print Preview	Displays the print preview of the setting values displayed.
Print	Displays the print dialog box of the setting values displayed.
Exit	Exits the program.
Environment setting	
Password	Displays the password setting screen.
Communication Parameters	Displays the communication environment screen.
Reset to Factory Set	Initializes the module.
Help	
Version information	Displays the version screen.

5.2. Product Information Screen

Displays values such as "Model Number," "Production Number," and "Version" obtained through communications. No inputs other than those to the "Comment" field can be entered.

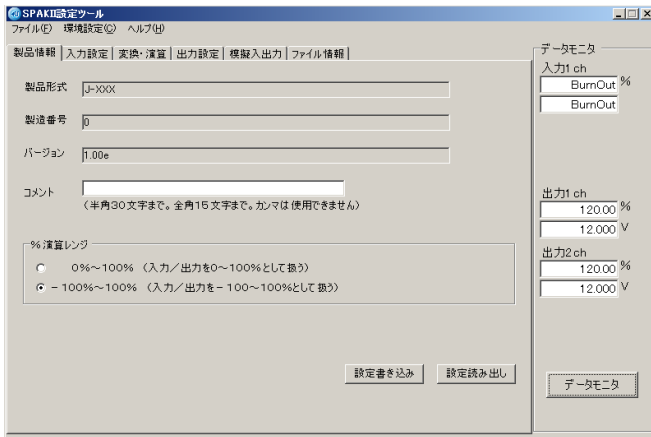


Figure 4. Product information screen

5.3. Input Function Screen

Sets the parameters of inputs to the module, such as input signals and ranges, and reads and checks them.

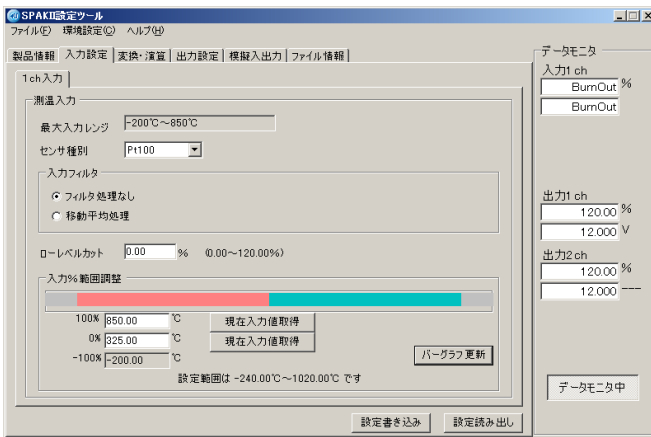


Figure 5. Input setting screen (example of RTD and Thermocouple)

5.4. Conversion / Arithmetic Operation Calculation Screen

Sets various settings for the signal conversion and arithmetic operation functions, and reads and checks them. Execution functions are visualized as icons for each SPAK module type, which allows efficient settings and checking.

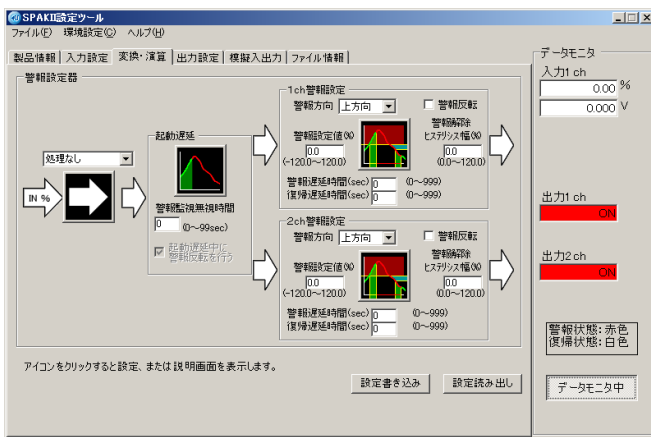


Figure 6. Calculation screen (example of Monitor Switch)

5.5. Output Setting Screen

Sets the parameters for module outputs, such as low-level cut and module startup delay time, and reads and checks them.

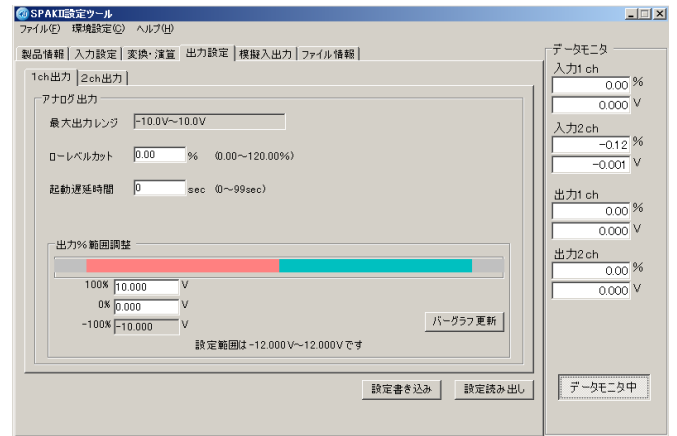


Figure 7. Output setting screen (example of an analog output)

5.6. Manual Input/Output Screen

Can perform manual inputs and outputs to check module operations.

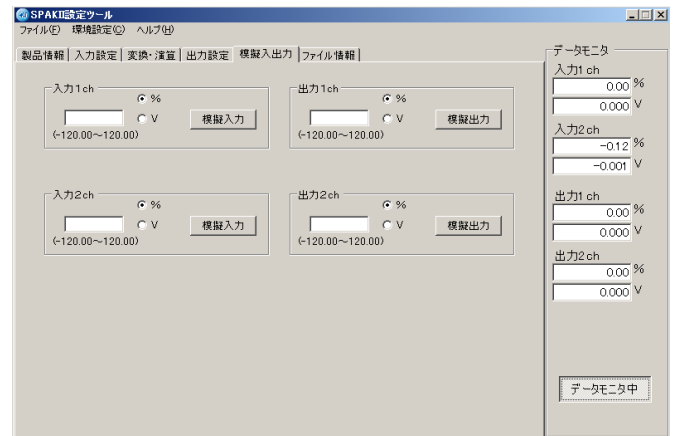


Figure 8. Manual input/output screen

5.7. File Information Screen

Sets and browses information saved in a DAT file.

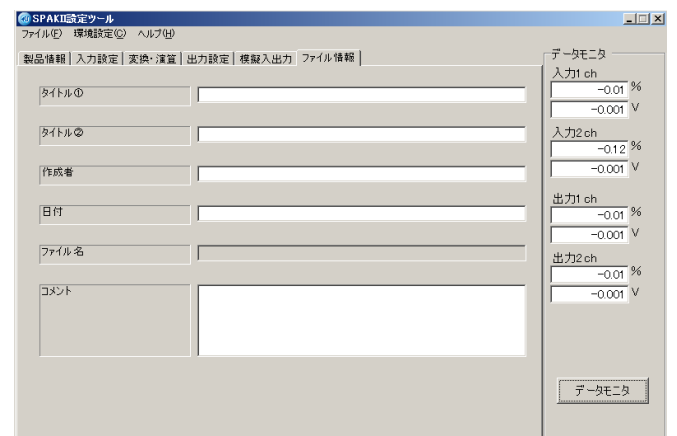


Figure 9. File information screen

5.8.DAT File Format

A DAT file is created in a text format, where each piece of data is separated line by line. A DAT file can be browsed on a PC using a tool that supports general text files. However, never reuse a file where a tool other than the SPAK Loader Tool is

used to create, edit, change, and implement other processing on it. Reusing such a file as the Loader tool is outside the operational warranty scope.

Settings saved in a DAT file are as follows:

Type	Data contents	Write from PC loader to module
For data file browsing	Loader tool version, Title 1, 2, Creator, Date (yy/mm/dd, hr:min:sec), File comment	No
Module fixed data	Model number, Production number, Version, Input type, Input ch, Output type, Output ch, Input/output calibration data, Input/output% range	No
Module setting data	Input/output range, Arithmetic operation settings, Settings of inputs/outputs, Linearization setting data, Module comment	Yes

5.9.Print Format of Setting Values

Various setting values being displayed can be printed in the following format:

```
[Title1] XXX
[Title2] XXX
[Creator] XXX
[Date] XXX
[Comment] XXX
[Product model] XXX
[Product number] XXX
[Version] XXX
[Input type]
[Input ch] XXX
[Output type] XXX
[Output ch] XXX
[Comment] XXX
[Input/output% range] XXX
[Arithmetic0-Settings] XXX
[Arithmetic0-Processing0] XXX
[Arithmetic0-Processing1] XXX
:
:
```

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