SystempaK (Digital/File Type) **Integrator Module**

Model J-SAZ 90

Introduction

The Integrator Module (J-SAZ90) converts an input signal to a pulse and continuously counts it in conjunction with the counter. In addition to the proportional integration of inputs linearly, the Integrator Module, which provides the input linearization function as a standard function, can serve alone as a square root

The input range, linearization, output pulse width and other such setting changes are easily done with the dedicated Loader Software, which operates on a general-purpose PC.

Specification

- · Input signal: 1 to 5V DC or 4 to 20 mA DC
- Input impedance: 1 M Ω (voltage input), 250 Ω (current)
- Input linearization: 101 linearization points
- Square root extraction:

Input linearization is used (dropout function available). Output circuit (Specifying of model): Triac (for driving the AC/ DC electromagnetic counter) or open collector

· Maximum allowable load: Triac; 24V DC 250 mA

Open collector; 30V DC 30 mA

· ON voltage: Triac; 2V or less

Open collector; 0.4V or less

- ON current: 250 mA or less (Triac)
- Specified circuit voltage:

200V DC, 130V AC or less (Triac)

· Maximum output frequency setting: Triac; 0.000278 HzFS to 5 HzFS

Open collector; 0.000278 HzFS to 2 kHzFS

· Pulse width type:

Selectable from 50% duty, fixed on-pulse, or fixed off-pulse. (Open collector output only)

• Pulse width time (ON time):

Triac; Fixed at 100 msec

Open collector; 50 μ sec to 1 sec (On the basis of 1 μ sec)

- Input low-level cut: Specifying of low cut value by %.
- Output low-level cut: Specifying of low cut frequency (7 digits).
- · Accuracy: See the accuracy table:

Maximum output	Output span width	Output accuracy % of
frequency setting		output span
0.00278 HzFS		±0.1%
to	frequency set maximum	
1 kHzFS	output	
	When 50% or less of ditto	$\pm 0.1\% \times ("Full-scale set$
		output frequency"/2) /
		("Full-scale set output
		frequency" - "0% set
		output frequency")
1 kHzFS		$\pm 0.2\% \times ("Full-scale set$
to		output frequency"/2) /
2 kHzFS		("Full-scale set output
		frequency" - "0% set
		output frequency")



- Arithmetic period: 5 msec
- Input/output response:

Minimum of 120 msec (0 to 90% response)

• Insulation resistance: 500V DC, 100 Ω min. (Mutual between input - output - GND - power terminal)

Withstand voltage: 1000V AC, 1 minute (Mutual between input - output - GND - power terminal) Power supply: 24V DC $^{+10}_{-15}\%$

Current consumption: 200 mA or less (at 24V)

Ambient temperature:

Normal operating condition; 5 to 45°C

Operation limit: 0 to 50°C

Ambient humidity: 0 to 90%RH (No condensation allowed)

- Mounting: File
- Color of front mask: Black
- Weight: 250 g
- Operating influence:

Supply voltage effect; ±0.1%FS/24V DC +10 % Temperature effect; ±0.15%FS/10℃

Loader settings:

Module ID: 16 one-byte characters, 8 two-byte kanji characters Input scaling setting; Zero span setting within input range (Setting of an input such as 0, 100% at each input)

Linearization setting; 101 points

Input filtering; Unavailable/available (Moving average)

Output low-level cut; Without/with (Low-level cut frequency is variable; Specify it by frequency in 7 digits.)

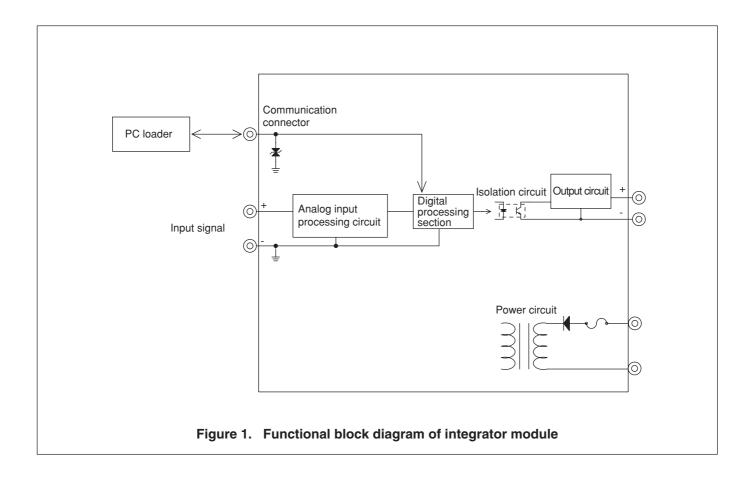
Pulse width type; Selectable from 50% duty, fixed on-pulse, or fixed off-pulse.

(For open collector output)

Pulse width time; When set to fixed on-pulse or fixed offpulse type. (For open collector output) 50 μ sec to 1 sec (1 μ sec resolution)

Output zero span adjustment:

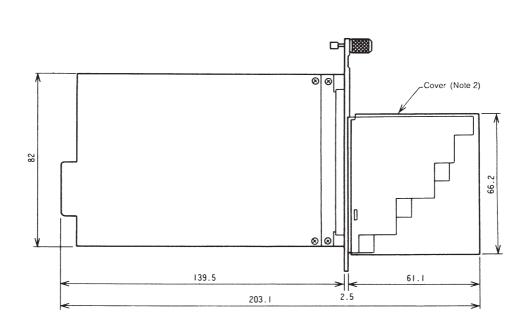
Setting of any value within output range (0.00278 Hz to 2 kHz F.S.). Minimum span: 10 C/H

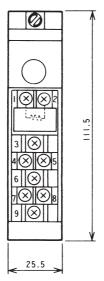


Model Number Table

Basic model number		Selec	Selections		Description
		I	II	I	
J-SAZ90					Integrator Module
	Х				No varnish coated
	С				Varnish coated
		-1			Input: 1 to 5V DC
		-2			Input: 4 to 20 mA DC
			1		Output: Non-contact output
			2		Output: Open collector
				-0	Without test report
				-1	With test report

Example: J-SAZ90X-12-0





No.	Description	
1 ^(Note 1)		
2 ^(Note 1)	Input (–)	
3	Input (+)	
4	Output	
5	COM	
6		
7		
8		
9	GND	

Note 1) 250Ω resistor is added for current input.
2) Operate the Module with a cover.
3) Terminal screws: M3.5

4) Use the pressured terminals with insulation sheath.

Figure 2. Dimensions and wiring diagram

When ordering, please specify:

1) Tag number

2) Maximum output frequency* [Set to 0 to 1 Hz by default]

The following are also set by default:

a) Input linearization setting: Linear

b)Output low cut: Unavailable

c) Pulse width type: 50% duty

* Use the quick list below when specifying the range. Ranges other than those below are also accepted.

Code No.	Range		
01	0 to 0.0278Hz	(0 to 100C/H)	
02	0 to 0.2778Hz	(0 to 1000C/H)	
03	0 to 1Hz		
04	0 to 10Hz		
05	0 to 100Hz		
06	0 to 1kHz		
07	0 to 5kHz		

Please read the "Terms and Conditions" from the following URL before ordering or use:

http://www.azbil.com/products/bi/order.html

Specifications are subject to change without notice.

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