

DIGITRONIK™

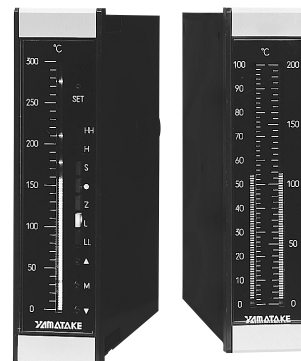
Smart Indicator with LED Bar Graph Indicator

SI Series

FEATURES

The Smart Indicator is a compact, lightweight, highly reliable single-point process faceplate, featuring DIN-sized LED bar graph indication of process variables.

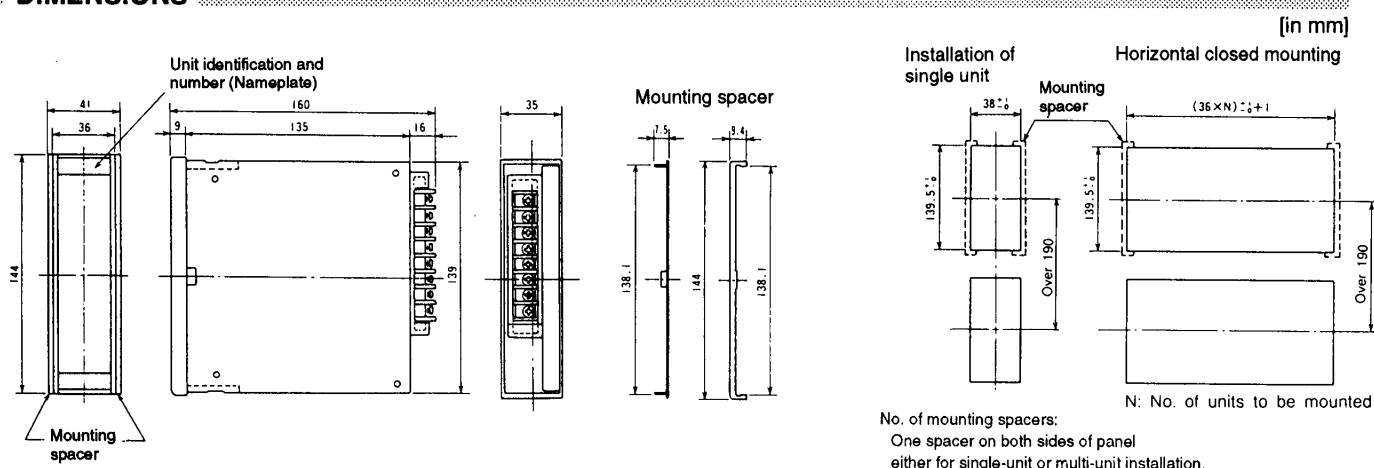
- Bar graph features high-intensity custom LED's
- Three bar display colors available: red, green and yellow
- Alarm setting and zero span adjustment easily performed



SPECIFICATIONS

Model	Model No.	SIA	SIB	SIC	SID
	No. of indicating points	1	2	1	1
	Alarm	—	—	High/low limit	High high limit/low low limit
Input	Input	4 to 20mA _{dc} and 0 to 1mA _{dc} , or voltage 1 to 5V _{dc} 0 to 1V _{dc} or 0 to 5V _{dc}			
	Response time	0.5 sec.			
	Input impedance	Lower than 10Ω at 4 to 20mA _{dc} input, higher than 250kΩ at 1 to 5V _{dc} input			
	Zero span adjustment	±10% FS			
Indicating action	Signals	Red, green, yellow LED bar dots (color selection) Display flashes (SIA, SIB only) when input is complete.			
	Range	0 to 100% FS			
	Accuracy	±1% FS ±1 dig			
Setting alarms (SIC-SID)	Range	High/low limit	High limit value (H) 100% FS to (low limit value + 1% FS)		
			Low limit value (L) (High limit value to 1% FS) to 0%		
		High-high limit/low-low-limit	High high limit value (HH) 100% FS to (High limit value + 1% FS)		
			High limit value (H) (High high limit value – 1% FS) to (Low limit value + 1% FS)		
			Low limit value (L) (Low limit value – 1% FS) to (Low low limit value + 1% FS)		
		Low low limit value (LL) (Low limit value – 1% FS) to 0%			
Output		Dry contact 125Vac 0.5A, 30V _{dc} 24 resistive load			
Design	Ambient temperature	0 to 50°C			0 to 45°C
	Weight	approx. 500g		approx. 590g	approx. 400g
	Storage temperature	–20 to +70°C			
	Rated voltage	100/110, 200/220, 120, 240Vac 50/60Hz or 24V _{dc}			
	Allowable voltage	90 to 121V (100/110V), 180 to 242V (200/220V), 102 to 132V (120V), 240 to 264V (240V), 20.4 to 27.6V _{dc} (24V _{dc})			
	Construction	Case: ABS rein Cover: Acryl resin Nameplate: ABS resin			
	Standard colors	Scale: Black aluminum Bezel case: Moss green Munsell 2.5GY3/1			
	Mounting	Embedded mounting into indoor panel			
	Standard accessories	Mounting spacer (2)			

DIMENSIONS



MODEL SELECTION GUIDE

Example = (1) SIA, SIC, SID Types:

I	II	III	IV
SIA	8	C	R A32X

(2) SIB Type:

I	II	III	IV	V
SIB	8	C	R A32X	G F50W

Item	Selection	Code	No. of Displays	Number of Alarms
I	Basic Model Number	SIA	↓	1
		SIB	↓	2
		SIC	↓	1
		SID	↓	1
II	Power Supply Voltage	1	0	100/110Vac 50/60Hz
		2	0	200/220Vac 50/60Hz
		5	0	120Vac 50/60Hz
		6	0	240Vac 50/60Hz
		8	0	24Vdc
III	Input	C	0	4 to 20mA dc
		F	0	0 to 1mA dc
		L	0	0 to 1 Vdc
		V	0	1 to 5 Vdc
		Y	0	0 to 5 Vdc
IV	No.1 Display Colour	R	0	Red
		G	0	Green
		Y	0	Yellow
	No.1 Display Range	(*)	0	(See Range code selection table)
V	No.2 Display Colour	R	0	Red
		G	0	Green
		Y	0	Yellow
	No.2 Display Range	(*)	0	(See Range code selection table)

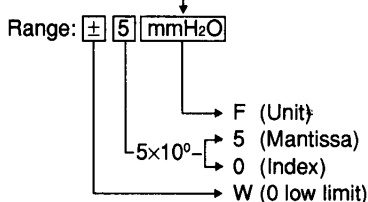
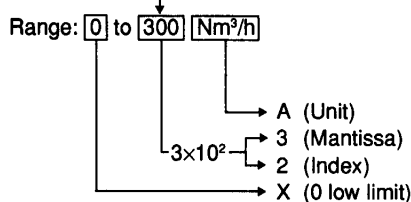
* Range Code Selection Table

↓	Selection	Code availability																	
○	Unit	→	A	C	D	F	G	H	I	O	Q	X	Y	Z	U	S	T	V	W
			m³/h [N]	%	m³/h	mmH₂O	kgf/cm²	l/min	°C	pH	Kcal/h	m	mm	none	ppm	hPa	Pa	kPa	MPa
○	Mantissa	→	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H
			1	2	3	4	5	6	7	8	9	15	25	35	45	55	65	75	85
○	Index	→	7	8	9	0	1	2	3	4	5	6	—	—	—	—	—	—	—
			10 ⁻³	10 ⁻²	10 ⁻¹	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	—	—	—	—	—	—	—
○	Hi/Lo	→	X									W							
	Range Limits		Minimum value: 0									Minimum value = - (maximum value), as ±50°C (mid range: 0)							

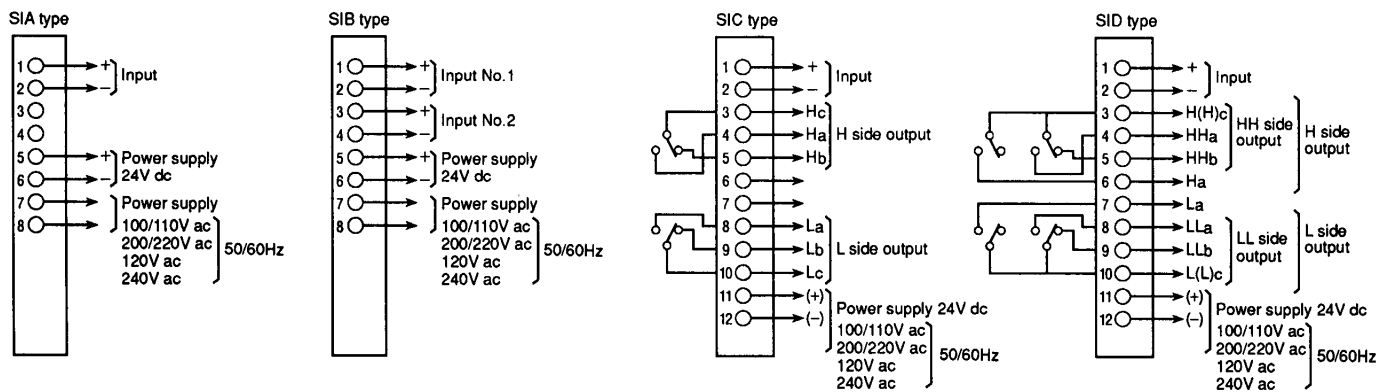
Example:

(1) SIA 8C R A32X E

(2) SIB 8C R A32X G F50W E



WIRING



() Polarity of 24V dc power supply

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RESTRICTIONS ON USE

This product has been designed, developed and manufactured for general-purpose application in machinery and equipment. Accordingly, when used in the applications outlined below, special care should be taken to implement a fail-safe and/or redundant design concept as well as a periodic maintenance program.

- **Safety devices for plant worker protection**
- **Start/stop control devices for transportation and material handling machines**
- **Aeronautical/aerospace machines**
- **Control devices for nuclear reactors**

Never use this product in applications where human safety may be put at risk.

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YAMATAKE

Yamatake Corporation Advanced Automation Company

Totate International Building
2-12-19 Shibuya Shibuya-ku
Tokyo 150-8316 Japan
URL:<http://www.yamatake.com>

Printed on recycled paper.

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Printed in Japan. (H)
1st Edition: Issued in May, 1994
3rd Edition: Issued in Mar., 2005

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