SI

DigitroniK Smart Indicator (with LED Bar Graph)

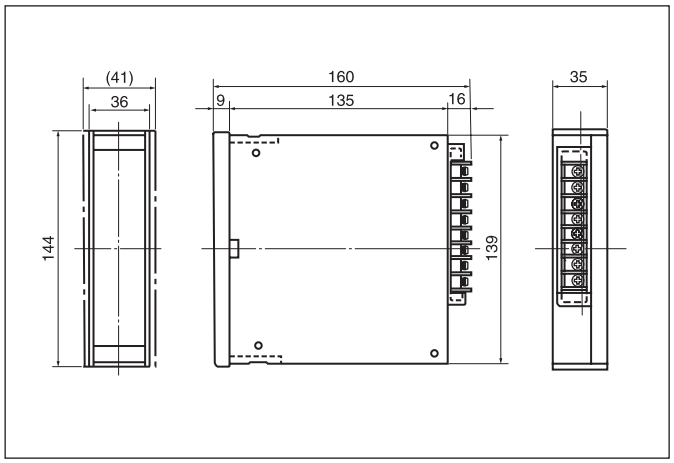
The SI is a compact, lightweight, highly reliable single-point process faceplate, featuring a DIN-sized LED bar graph indicator of process variables.

Features include high-intensity custom LEDs, three bar display colors (red, green and yellow) and simplified adjustment of alarm setting.

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 20mAdc and 0 to 1mAdc, or voltage 1 to 5Vdc, 0 to 1Vdc or 0 to 5Vdc			
	Response time	0.5s			
	Input impedance	Lower than 10W at 4 to 20mAdc input, higher than 250kW at 1 to 5Vdc input			
	Zero span adjustment	±10% FS			
Indicating action	**Signals**	Red, green, yellow LED bar dots (color section) 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 - 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	**Type**	Dry contact 125Vac 0.5A, 30Vdc 2A resistive load			
Design	**Ambient temperature**	0 to 50°C		0 to 45°C	
	Mass	Approx. 500g	Approx. 590g	Approx. 400g	
	Rated voltage	100/110, 200/220, 120, 240Vac 50/60Hz or 24Vdc			
	Allowable voltage	90 to 121V (100/110V), 180 to 242V (200/220V), 102 to 132V (120V), 240 to 264V (240V), 20.4 to 27.6Vdc (24Vdc)			
	Construction	Case: ABS resin. Cover: acrylic resin. Nameplate: ABS resin			
	Mounting	Embedded mounting into indoor panel			
	Standard accessories	Mounting spacer (2)			

Dimensions (Unit: mm)



Selection Guide

I II III IV V VI Example: **SIA8CRA32X**

Segment	Model No. selection				Description	
					No. of displays	No. of Alarms 1
I	Basic No.	**SIA**	↓		1	0
		SIB		↓	2	0
		SIC	↓		1	2 (high low limits)
		SID	↓		1	4 (high-high and low-low limits)
II	Power	**1**	○	○	100/110Vac 50/60Hz	
		2	○	○	200/220Vac 50/60Hz	
		5	○	○	120Vac 50/60Hz	
		6	○	○	240Vac 50/60Hz	
		8	○	○	24Vdc	
III	Input	**C**	○	○	4 to 20mAdc	
		F	○	○	0 to 1mAdc	
		L	○	○	0 to 1Vdc	
		V	○	○	1 to 5Vdc	
		Y	○	○	0 to 5Vdc	
IV	No. 1 display color	**R**	○	○	Red	
		G	○	○	Green	
		Y	○	○	Yellow	
	No. 1 display range	**(*)**	○	○	(See range code selection table)	
V	No. 2 display color (SIB model only)	**R**	–	○	Red	
		G	–	○	Green	
		Y	–	○	Yellow	
	No. 2 display range	**(*)**	–	○	(See range code selection table)	
VI	Options	–	○	○	None	
		D	○	○	With inspection data	
		T	○	○	Tropicalization	
		B	○	○	Tropicalization + inspection data	
		Y	○	○	With traceability certification	

• A circle (○) denotes availability.

Range Code Selection Table

↓	Selection		Description																	
○	Unit	→	A	C	D	H	I	O	X	Y	Z	U	S	T	V	W	–	–	–	–
			m³/h[N]	%	m³/h	l/min	°C	pH	m	mm	–	ppm	hPa	Pa	kPa	MPa	–	–	–	–
○	Mantissa	→	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J
			1	2	3	4	5	6	7	8	9	15	25	35	45	55	65	75	85	95	14
○	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 range limits	→	X									W									
			0 to high limit value									± limit value									

Example:

(1) SIA 8C R A32X T

Range: 0 to 300 Nm³/h

- A32X → A (Unit)
- 300 → 3 x 10^{2} → 3 (Mantissa), 2 (Index)
- 0 → X (0 low limit)

(2) SIB 8C R A32X G F50W T

Range: ± 5 mmH₂O

- F50W → F (Unit), 5 (Mantissa), 0 (Index)
- ± → W (± limits)