Sensata ISOSLICE-9 4 AC Analog Input Isoslice Unit User Manual

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Sensata ISOSLICE-9 4 AC Analog Input Isoslice Unit

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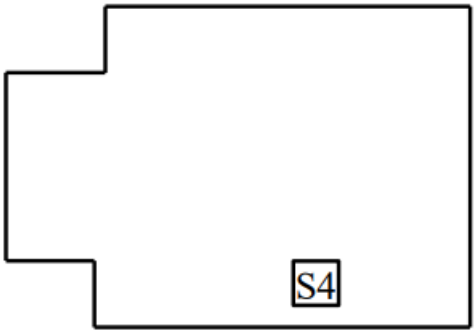
The ISOSLICE 9 unit has 4 ac analog inputs.



S4 selects the isoslice bus channel (2 to 128)

Default input types and ranges

Default input ranges are 0 to 1A AC. The ISOSLICE 9 is used with a range of current transformers which produce output in this range, but with a variable input range in ac Amps.

Channel number

The channel number is selected using S4. The channel number must be between 2 and 128, using switches 2 to 8. If all switches are off, the channel number is 1 (invalid): The channel number is a binary reading of switches 2 to 8, with switch 8 the lowest bit.

S4 1 = On, 0 = Off

Channel	2	3	4	5	6	7	8	Channel	2	3	4	5	6	7	8
1	0	0	0	0	0	0	0	9	0	0	0	1	0	0	0
2	0	0	0	0	0	0	1	10	0	0	0	1	0	0	1
3	0	0	0	0	0	1	0	11	0	0	0	1	0	1	0
4	0	0	0	0	0	1	1	12	0	0	0	1	0	1	1
5	0	0	0	0	1	0	0	13	0	0	0	1	1	0	0
6	0	0	0	0	1	0	1	14	0	0	0	1	1	0	1
7	0	0	0	0	1	1	0	15	0	0	0	1	1	1	0
8	0	0	0	0	1	1	1	16	0	0	0	1	1	1	1

Connections

1. Input 4 **+**ve
2. Input 4**–**ve
3. Input 3 **+**ve
4. Input 3**–**ve
5. Input 1 **+**ve
6. Input 1**–**ve
7. Input 2**+**ve
8. Input 2**–**ve

Calibration

The ISOSLICE 9 has an LED that shows which mode it is in.

- **Green:** run
- **Red:** learn span point
- **Amber:** learn zero point

Calibration of a channel

- In run mode select the input to be calibrated
- Calibrate the span point
- Return to run mode
- Calibrate the zero point
- Return to run mode

Select the Input to be calibrated

Push the raise or lower button when the LED is green. The LED will flash red between 1 and 4 times, indicating the input that will be calibrated next.

Calibrate the Span Point

When the input has been chosen push and releases both buttons. The LED will go red. Put in the span value (eg. 10A AC into the connected CT for the selected input channel), wait a few seconds for the input to be averaged to a stable level then push the raise button to confirm that the input value is the value for the span at 100%. The Isoslice unit will check if it is using the most appropriate gain setting for the ADC. If it is, the span point h as been learn ed If the gain is not right, it will change the gain setting (green flash) then the red led will flash. Push the raise button again to make it learn the input value with the new gain setting. There are 8 possible gain settings, so it may be necessary to repeat this process a few times. When the led stays red after the button has been pressed, the span point has been learning ed Push and release both buttons to return to run mode. The LED will go off briefly (to indicate it has learned and saved a new value) and then change to green.

Calibrate the Zero Point

- Push and release both buttons.
- The LED will change from green to amber.

Put in the zero value (e g. 0A AC into the connected CT for the selected input channel), wait a couple of seconds for the input to be averaged to a stable level then push the raise button to confirm that the input value is the value for the zero at 0.00%. Push and release both buttons, the led will again go off briefly and then change to green. Check the calibration has been successful by varying the input and confirming the value shown on the Z Port or E 100 display for the corresponding input and channel is correct.

Sensata Technologies

Documents / Resources

	Sensata ISOSLICE-9 4 AC Analog Input Isoslice Unit [pdf] User Manual ISOSLICE-9 4 AC Analog Input Isoslice Unit, ISOSLICE-9, 4 AC Analog Input Isoslice Unit, Analog Input Isoslice Unit, Input Isoslice Unit, Isoslice Unit

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