SIMATIC S5-100U

Product Data Sheet

6ES5464-8ME11

Four-Channel 4 to 20 mA Analog Input

CURRENT INPUT RANGE	SELECTABLE ACTIVE INPUTS	INPUT RESISTANCE	SENSOR CONNECTION
4 to 20 mA	**1, 2 or 4**	**31.25 ohm**	**2-wire or 4-wire transmitter**

Siemens 6ES5464-8ME11 is the isolated 464 analog input module for the documented SIMATIC S5-100U arrangement. It accepts 4 to 20 mA signals from two-wire or four-wire transmitters and permits one, two or four active inputs. The input resistance is 31.25 ohm, and the digital value uses a left-justified two's-complement representation with twelve bits plus sign.

01 TECHNICAL DATA

Current input range	4 to 20 mA
Selectable active inputs	1, 2 or 4
Input resistance	31.25 ohm
Sensor connection	2-wire or 4-wire transmitter
Digital representation	12 bits plus sign; 2048 units at rated value
Measured-value format	Two's complement; left-justified
Conversion method	Dual-slope voltage-time conversion
Integration at 50 Hz	20 ms
Integration at 60 Hz	16.6 ms
Basic error limit	+/-0.15%

Siemens S5-100U Manual EWA 4NEB 812 6120-02b; analog input module 6ES5 464-8ME11, pages 14-48 and 14-49.

02 ADDITIONAL PRODUCT DATA

Operational error limit	+/-0.4% from 0 to 60 degrees C
Maximum shielded signal cable	200 m
Transmitter supply range	20 to 30 V DC
Typical 9 V backplane consumption	70 mA
Input-channel isolation	Inputs to ground; not between channels

03 PRODUCT FUNCTION

The module uses integrating dual-slope voltage-time conversion, with 20 ms integration at 50 Hz or 16.6 ms at 60 Hz for line-noise rejection. The stated basic error limit is +/-0.15%, rising to an operational limit of +/-0.4% across 0 to 60 degrees C. Inputs are isolated from grounding potential but not from one another. The manufacturer permits up to 200 m of shielded signal cable and specifies a 20 to 30 V DC range for the transmitter supply.

04 SYSTEM COMPATIBILITY

Connect two-wire or four-wire transmitters using the separate terminal diagrams. Keep the transmitter supply within 20 to 30 V DC and include the 31.25 ohm input resistance in the loop burden. The channels share their reference arrangement; isolation to ground does not provide isolation between individual inputs.

05 REFERENCE

Siemens S5-100U Manual EWA 4NEB 812 6120-02b; analog input module 6ES5 464-8ME11, pages 14-48 and 14-49.

AMIKON PRODUCT SUPPORT

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