

Analog Input Module 16 x I/V or 8 x I/V, Floating

(6ES5 466-3LA11)

Technical Specifications		
Number of inputs	16 individual or 8 differential inputs in groups of 4 or 2 channels (switchable) voltage measurement or current measurement	Basic error limits - Voltage ranges outside 0 to 1.25 V, +1.25 V 0.1 % - Current ranges and 0 to 1.25 V, +1.25 V 0.12 %
Floating	yes	Operational error limits (0 °C to 60 °C) - Voltage ranges outside 0 to 1.25 V, +1.25 V 0.2 % - Current ranges and 0 to 1.25 V, +1.25 V 0.24 %
Input ranges	0 to 20 mA, 4 to 20 mA, ±20 mA, 0 to 1.25 V, 0 to 2.5 V, 0 to 5 V, 1 to 5 V, 0 to 10 V, ±1.25 V, ±2.5 V, ±5 V, ±10 V	Individual errors - Linearity 0.02 % - Tolerance 0.05 % - Polarity error 0.05 %
Input resistance - Voltage measuring range 10 M - Current measuring range 125		Temperature error 0.005 %/K
Type of connection for sensors	Two-wire connection	Cable length - shielded maximum 200 m (656 ft.)
Digital representation of the input signal	Any of the following representations - 12 bits two's complement - 11 bits + sign - 12 bits binary	Front connector 43 pins
Measuring principle	Momentary value decoding	Isolation rating to VDE 0160
Conversion principle	Successive approximation	Rated isolation voltage (channels to grounding point) tested with 500 V
Conversion time typically	25 µsec. (per channel)	Supply voltage - internal +5 V +/- 5 % - external none
Coding time (per measured value)	250 µsec.	Internal current consumption typically 0.7 A
Duration of cyclic sampling (scan time) - for 8 measured values - for 8 measured values	maximum 2 msec. maximum 4 msec.	Power losses of the module typically 3.5 W
Max. permissible input voltage (without destruction)	maximum ±30V (static) or ± 75V (Pulse for max. 1 msec. and a duty cycle 1:20)	Weight approx. 0.4 kg
Permissible isolation voltage between the reference potential and the central grounding point	maximum 60 V AC/75 V DC	Design ES 902
Error indication for - Overflow - Internal errors	yes (overflow bit set) yes (error bit (= E bit) set)	
Noise suppression common mode noise (V _{pp} =1 V)	minimum 70 dB	