AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7134-6TD00-0CA1

ET 200SP HART Input Module



INPUTS	RANGE	HART	BASEUNIT
4 current	**4-20 mA**	**Revisions 5-7**	**A0 / A1**

Siemens 6ES7134-6TD00-0CA1 is a SIMATIC ET 200SP analog input module for four 4-20 mA HART transmitters. It combines 16-bit current measurement with HART revisions 5 to 7, allowing the controller and supported engineering tools to access additional field-device information.

01 VERIFIED TECHNICAL INFORMATION

Analog channels	4 differential current inputs
Input range and resolution	4-20 mA, with or without HART; 15 bits plus sign
HART protocol support	Revisions 5 to 7; one field device per channel, monodrop
HART variable access	Up to 4 variables per channel via data record 121; up to 4 selected variables per module directly mapped
Input address allocation	8 bytes analog; optional 1-byte QI and 20-byte HART-variable area
Compatible BaseUnits	Type A0 and A1; color identification CC03
Supply voltage	24 V DC rated; 19.2-28.8 V DC permissible

Manufacturer evidence: Analog Input Module AI 4xI 2-wire 4...20mA HART; exact-model manual section and manufacturer data sheet.

02 TECHNICAL INFORMATION CONTINUED

Module current consumption	Maximum 25 mA, excluding sensor supply
Sensor supply	24 V, short-circuit protected; 20 mA maximum, or 50 mA per channel for less than 10 seconds
Typical power loss	0.65 W, excluding sensor supply
Input resistance	280 ohm plus approximately 0.35 V diode forward voltage
Shielded cable length	Maximum 800 m
Interference suppression	10, 50 or 60 Hz; selectable by channel within configuration constraints
Wire-break thresholds	Selectable 1.185 mA or 3.6 mA; 3.6 mA setting restores validity above 3.8 mA
Current measurement error	±0.3% at 25°C; ±0.5% over operating temperature, relative to input range

03 SOURCE AND CONFIGURATION CHECKS

Each channel can acquire its current signal with or without HART communication. Configurable diagnostics cover loop wiring, supply and field-device conditions, while optional quality information identifies invalid analog values. The selected configuration determines whether HART variables are also mapped into the controller's input address space.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

Siemens original documentation and product reference

AMIKON PRODUCT SUPPORT

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