AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7450-1AP01-0AE0

FM 450-1 Two-Channel Counter Module

CHANNELS	5 V RS422	CONTROL INPUTS	OUTPUTS
2	**500 kHz**	**6**	**4 x 0.5 A**

Siemens 6ES7450-1AP01-0AE0 is the FM 450-1 counter module for S7-400 systems. Its two counters support continuous, single or periodic counting, using unsigned or signed 32-bit ranges. Two comparison values per counter let the configured outputs respond when the selected count conditions are reached.

01 VERIFIED TECHNICAL INFORMATION

Counter channels	Two
Counting ranges	0 to 4294967295 or -2147483648 to +2147483647
Counting operating modes	Continuous, single or periodic
Comparison values	Two per counter
5 V encoder input	Differential RS422; maximum 500 kHz
24 V counter input maximum	200 kHz; 20 kHz with longer filter setting
Digital control inputs	Six; gate start/stop and set functions

Manufacturer evidence: Counter module FM 450-1; exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

Digital outputs	Four P-switching outputs, nominal 0.5 A each
Output switching time	Maximum 300 µs
Rated auxiliary and load voltages	24 V DC
Static supply range	20.4 to 28.8 V DC
5 V encoder supply	5.2 V ±2%; maximum 300 mA per count channel
24 V encoder supply	1L+ minus 3 V; maximum 300 mA per count channel
Backplane 5 V current	Maximum approximately 300 mA
Typical module power loss	Approximately 6 W

03 SOURCE AND CONFIGURATION CHECKS

Input frequency depends on the encoder and filter selection: suitable 5 V RS422 signals permit up to 500 kHz, while 24 V signals permit 200 kHz or 20 kHz with longer filtering. Six digital control inputs and four 0.5 A outputs support configured counting responses.

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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