

SIMATIC S7-400

Analog input/output modules

SM 431 analog input modules

Overview



- Analog inputs for the SIMATIC S7-400
- For connecting voltage and current sensors, thermocouples, resistances and resistance thermometers
- Resolution 13 to 16 bits

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Application

Analog input modules convert analog signals from the process to digital signals for

internal processing within the S7-400. Voltage and current sensors,

thermocouples, resistors and resistance thermometers can be connected as sensors.

Function

Features also include:

- Configurable resolution from 13 to 16 bits.
- A variety of measuring ranges: the basic current, voltage or

resistance measuring ranges are set mechanically with range cards or via the wiring; fine adjustments are made with the STEP 7 "Hardware Configuration" function on a programming device.

- Interrupt capability; some modules transmit diagnostic and limit value interrupts to the programmable controller's CPU.
- Diagnostics; some modules send extensive diagnostic information to the CPU.

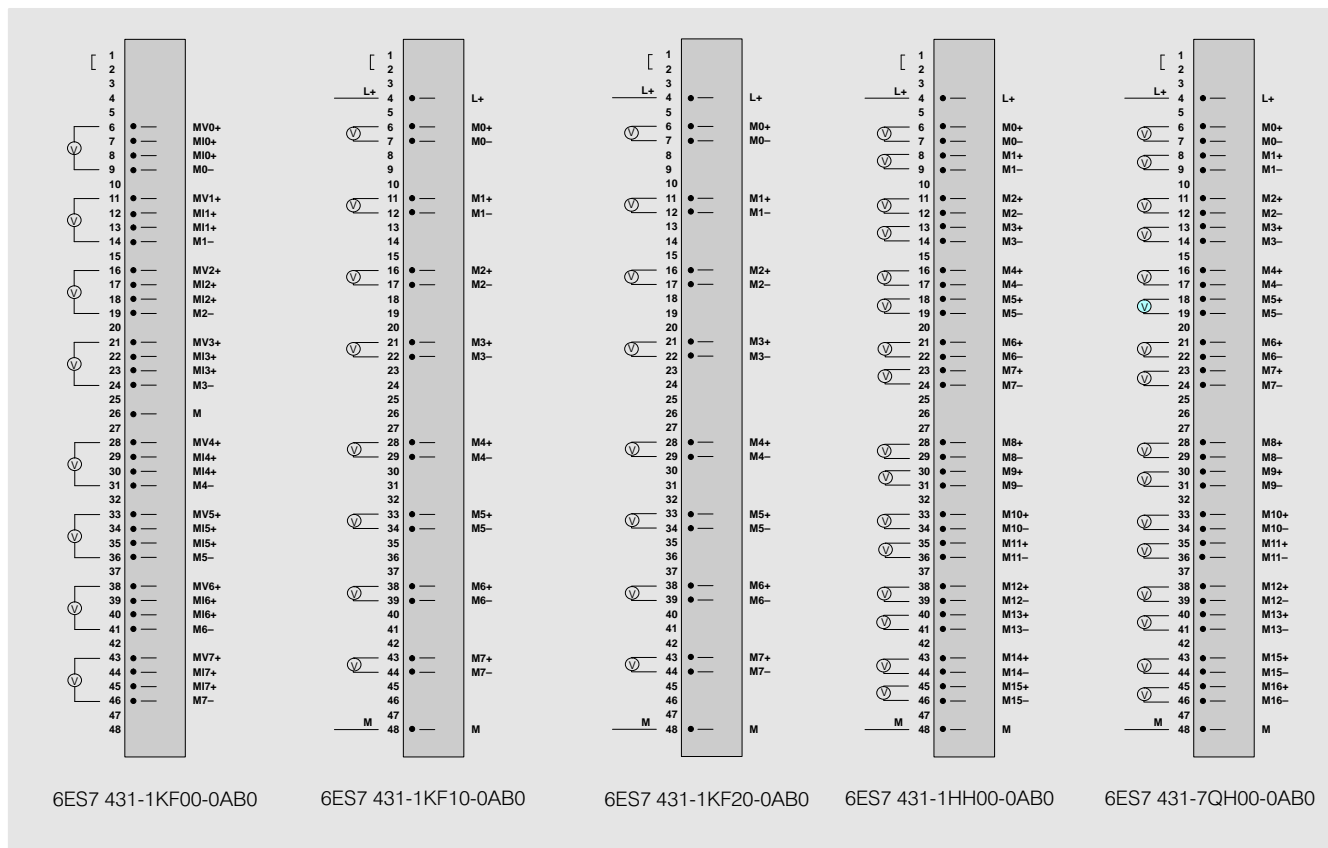


Fig. 4/17 Terminal connection diagrams of the analog input modules for voltage measurement