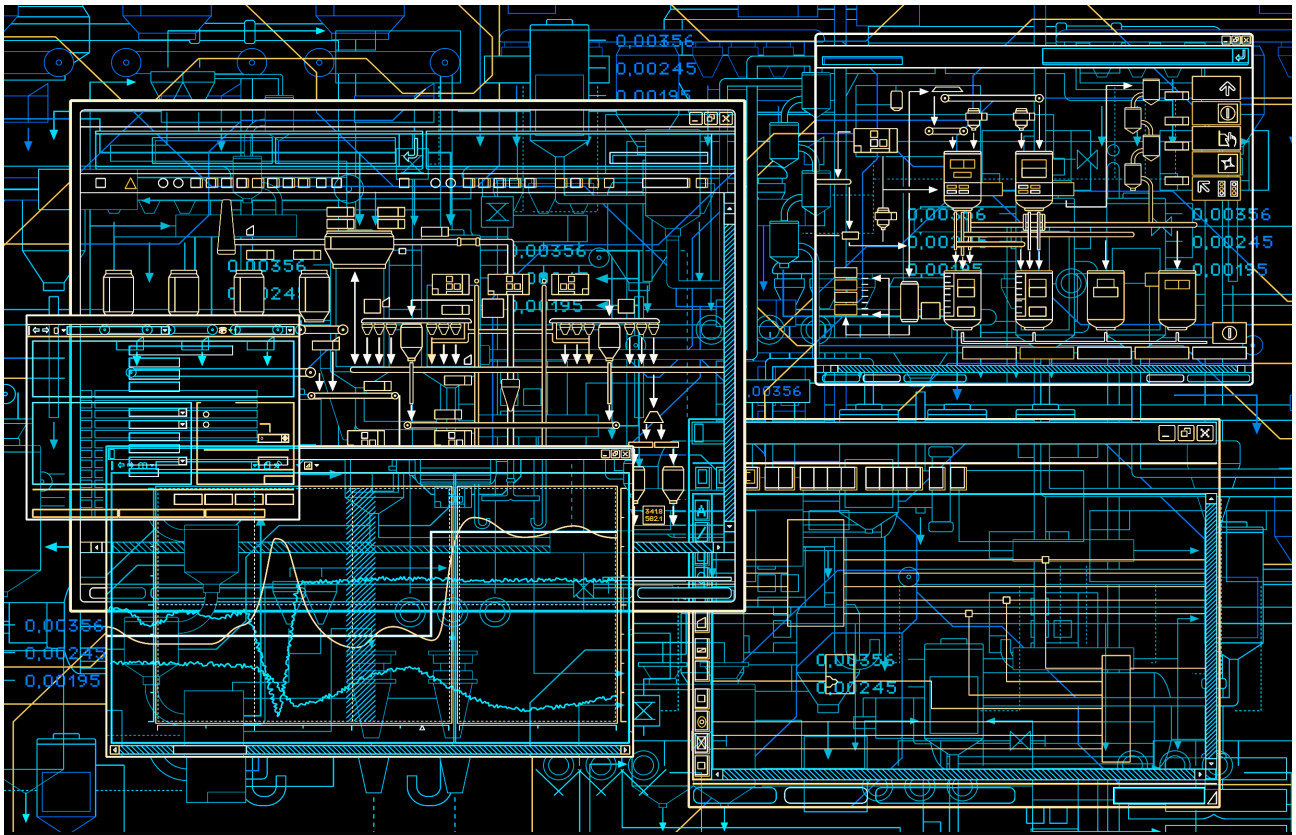


S200 I/O

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The 200-PS1.3 power supply provides sufficient 24 V DC power to operate up to 4 adapter units. Do not attempt to operate an entire I/O system with this power supply.

Calculating the 24 V Supply to the I/O System

To calculate the total current required from the 24 V I/O supply, both the current required by the I/O units themselves and that required by the inputs/outputs must be considered. For the digital inputs the maximum number of simultaneous on-state inputs powered from the supply must be known. For analog and digital outputs the total simultaneous output current must be known. Refer to Appendix A, Technical Specifications for the basic data.



See Power Installation on page 34.

Example

In this example, a maximum of 32 of the 48 digital outputs can be on and the output load is 0.1 A per channel.

Number of I/O units used: 3 200-IB16, 3 200-OB16, 1 200-IE8 and 1 200-OE4
Number of adapters used: 1 200-ACN

3 200-IB16 require 3 * 16 inputs * 0.008 A =	0.38 A
3 200-OB16. 32 on-state outputs require 3 * 0.05 + 32 * 0.1 A =	3.35 A
1 200-IE8 requires 1 * 0.06 A =	0.06 A
1 200-OE4 requires 1*0.07 A =	0.07 A
1 200-ACN requires 1*0.4 A =	0.4 A
Total current required from 24 V I/O supply:	4.26 A

This means that the 24 V DC power supply should be able to deliver at least 5 A.

I/O unit	Order code	Preferred terminal base	Compatible terminal base(s)
Counters			
24 V DC	200-IP2	200-TB3	200-TB3S 200-TB2
	200-IP4	200-TB3	200-TB3S 200-TB2
Analog			
24 V DC	200-IE8	200-TB3	200-TB3S
	200-OE4	200-TB3	200-TB3S 200-TBN 200-TBNF
	200-IE4xOE2	200-TB3	200-TB3S
Isolated analog			
24 V DC	200-IF4I	200-TB3	200-TB3S 200-TB3T 200-TBN
	200-OF4I	200-TB3	200-TB3S 200-TB3T 200-TBN
Speciality			
RTD Input unit	200-IR8	200-TB3	200-TB3S 200-TB3T
	200-IR8R	200-TB3T	200-TB3T
Thermocouple/mV Input unit	200-IT8	200-TB3T(1)	

(1) You can use a 200-TB3 for mV inputs only

Terminal Base Unit 200-TB2

This terminal base unit is intended for connecting an I/O unit and a number of two wire devices to the I/O system.

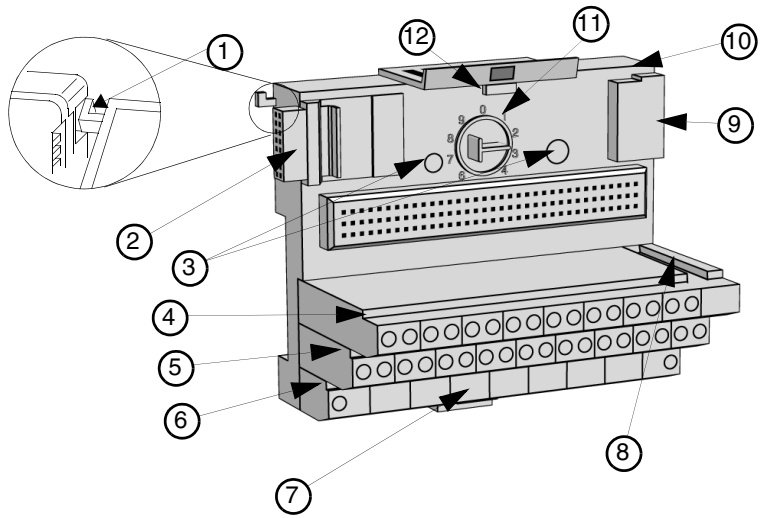


Figure 22. Terminal base unit 200-TB2

Component identification

1	Hook
2	Female I/O bus connector
3	Screw holes for panel mounting (Ø 4.5 mm), not used
4	Screw terminals for input/output connections
5	Screw terminals for input/output commons (0V DC)
6	Screw terminals for power connections (+24 V DC)
7	Locking tab for DIN rail mounting
8	Groove where the I/O unit guide rail fits
9	Male I/O bus connector
10	Slot for connection of an adjacent terminal base unit
11	Code key – set to the position required for the installed I/O unit