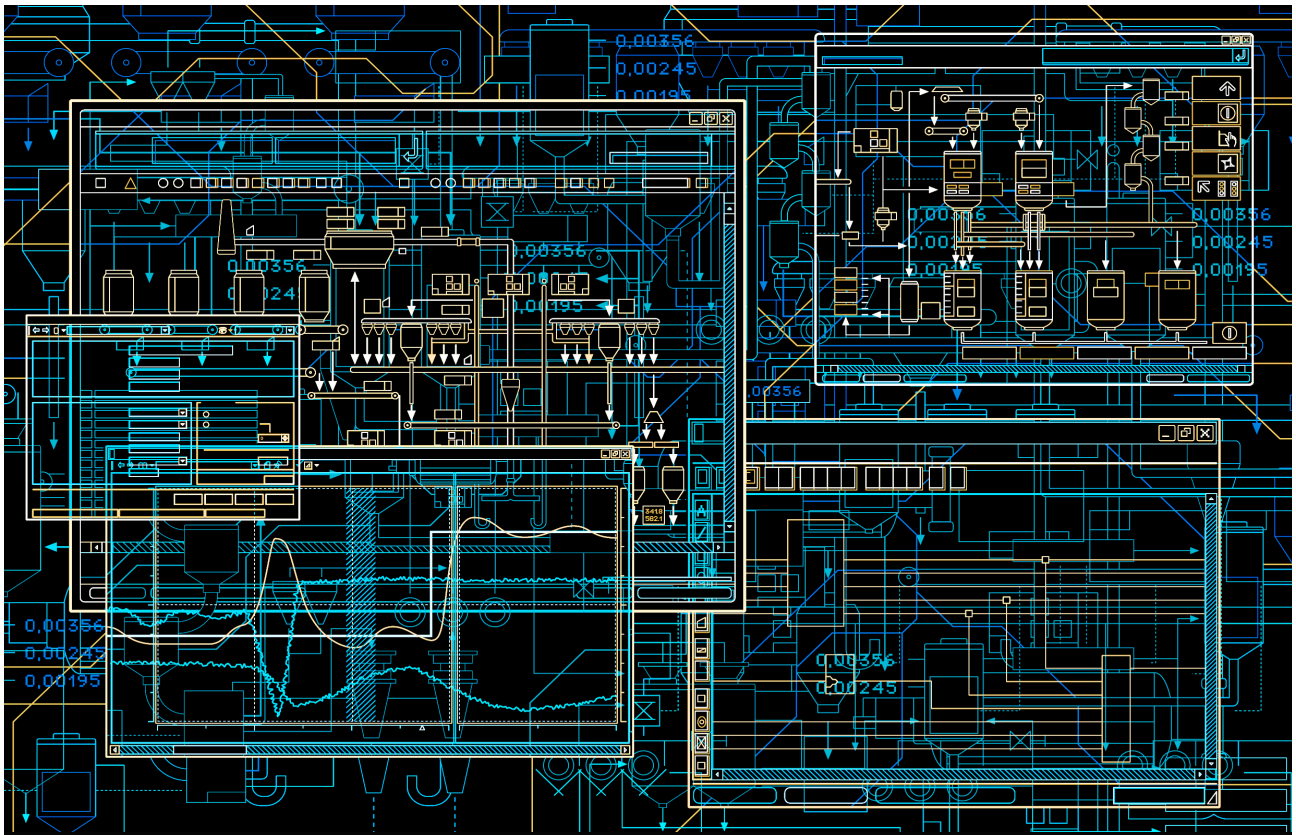


S200 I/O

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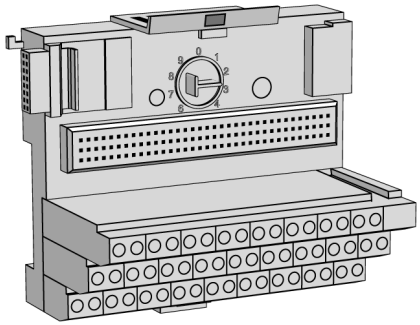
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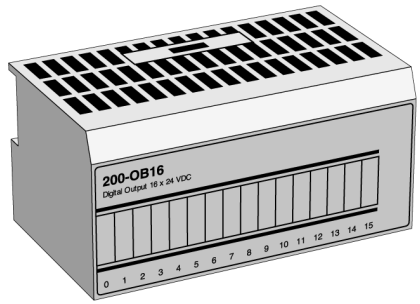
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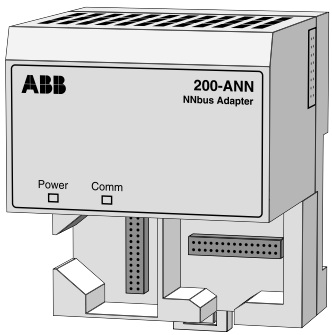
Terminal base units:

200-TB3, 200-TB2, 200-TBN etc.



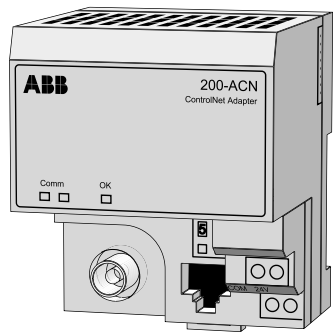
I/O units:

200-IB16, 200-OB16, 200-IE8, etc.



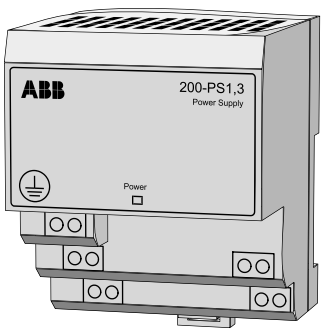
Adapter for central I/O:

200-ANN, 200-AIO

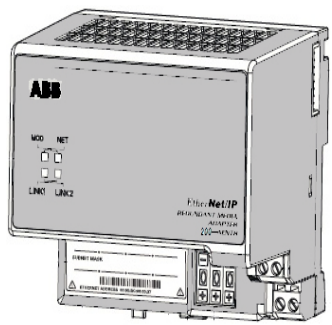


Adapters for remote I/O:

200-ACN, 200-APB12



Power supply:



Adapters for EtherNetI/P:

200-AENTR

Figure 2. The basic components of the I/O system.



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.