

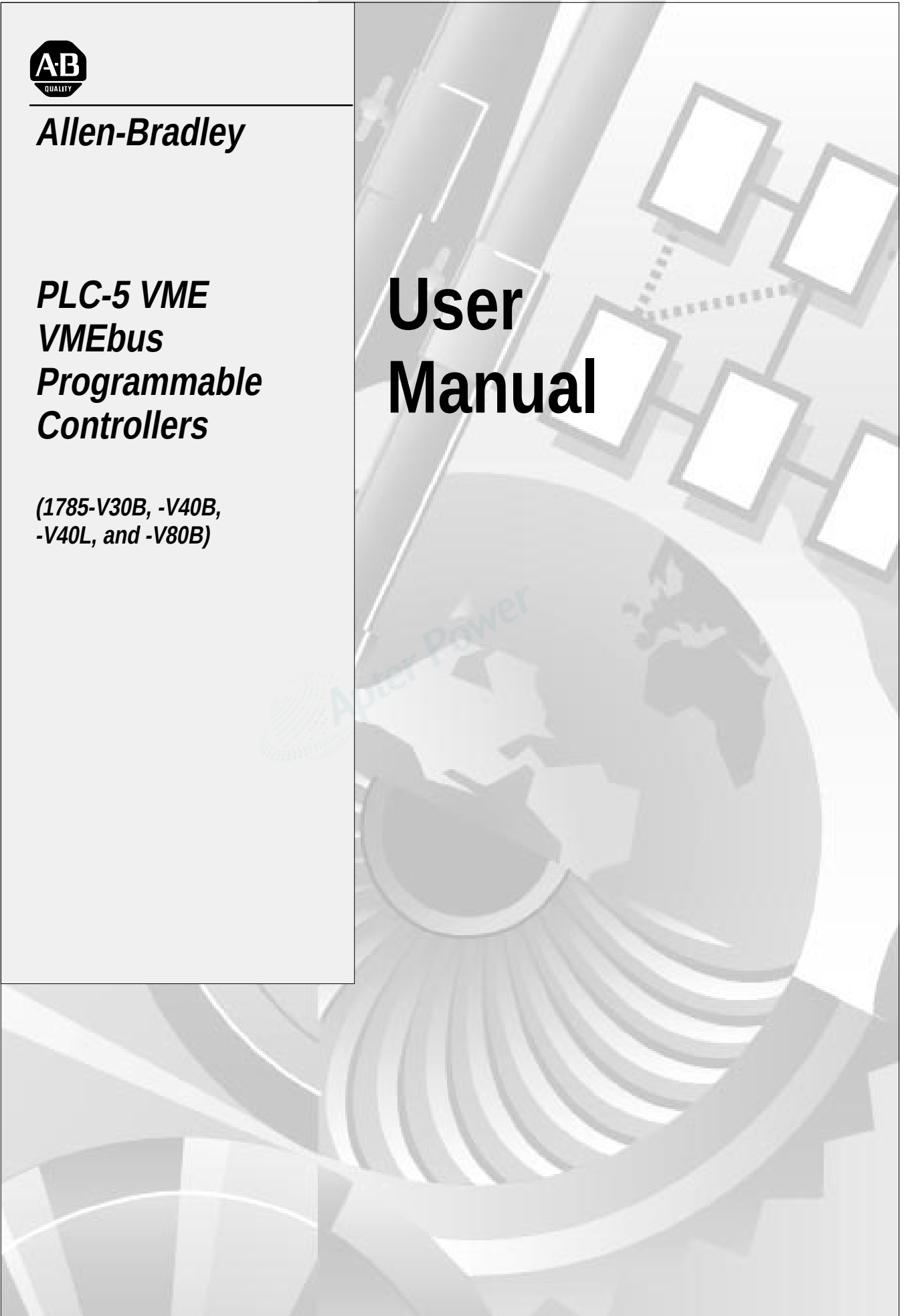


Allen-Bradley

***PLC-5 VME
VMEbus
Programmable
Controllers***

***(1785-V30B, -V40B,
-V40L, and -V80B)***

User Manual



Appendix C

Specifications

Environmental Specifications

Characteristic		Value
Temperature	Operating	0-65° C at point of entry of forced air with 200 LFM of air flow across the circuit board. Derated 2° C per 1000 ft (300m) over 6600 ft (2000m). 2° C per min max excursion gradient
	Storage	-40° -85° C 5 C per min max excursion gradient
Humidity	Operating	0-90% noncondensing
	Storage	0-95% noncondensing
Altitude	Operating	0-10,000 ft (3000 m)
	Storage	0-40,000 ft (12,000 m)
Processor Weight		21 ounces (595 grams) PLC-5/V30 24 ounces (680 grams) (PLC-5/V40, -5/V40L, -5/V80)
Vibration	Operating	0.015 inch (0.38 mm) P-P displacement with 2.5 g peak (max) acceleration over 5-2000 Hz
	Storage	0.030 inch (0.76 mm) P-P displacement with 5.0 g peak (max) acceleration over 5-2000 Hz
Shock	Operating	30 g, 11 ms duration, half-sine shock pulse
	Storage	50 g, 11 ms duration, half-sine shock pulse
Power	Maximum	21 watts
	Typical	16 watts
Current	+ 5V	4.0 A (max), 3.2 A (typical)
Agency Certification (when product or packaging is marked)		CE marked for all applicable directives

Appendix C

PLC-5/VME™ Processor Specifications		PLC-5/V30™ (1785-V30B)	PLC-5/V40™ (1785-V40B)	PLC-5/V40L™ (1785-V40L)	PLC-5/V80™ (1785-V80B)
Maximum User Memory Words		32 K	48 K ①		100 K ①
Maximum Total I/O	Any Mix	896	1920		2944
	Complementary	896 in and 896 out	1920 in and 1920 out		2944 in and 2944 out
Maximum Analog I/O		896	1920		2944
Program Scan Time		0.5 ms per K word (bit logic) 2 ms per K word (typical)			
I/O Scan Time		0.5 ms (extended local) 10 ms per rack @ 57.6 kbps 7 ms per rack @ 115.2 kbps 3 ms per rack @ 230 kbps			
RIO Transmission Rate		57.6 kbps 115.2 kbps 230 kbps			
Maximum Number of MCPs		16			
Number of Data Highway Plus™ (DH+™) or Remote I/O Ports (Adapter or Scanner)		2	4	2	4
Number of Extended-Local I/O Ports		N/A	N/A	1	N/A
Maximum Number of I/O Racks		7	15		23
Maximum Number of I/O Chassis	Extended Local	N/A	N/A	16	N/A
	Remote	28	60		92
Number of RS-232 Ports		1			
Backplane Current Load	Maximum	3.0 A	3.3 A	3.5 A	3.3 A
	Typical	2.4 A	2.7 A	2.9 A	2.7 A
Weight		0.56 kg (1.25 lbs)	0.67 kg (1.5 lbs)		

① The PLC-5/V40, -5/V40L, and -5/V80 processors have a limit of 32K words per data-table file.