

# TECHNICAL DOCUMENTATION

## CHANGE NOTICE

Addendum to HSC50 Installation Manual  
(EK-HSC50-IN-001)

This change notice updates information in the HSC50 Installation Manual (EK-HSC50-IN-001). The addendum contains changes in the HSC50 specifications table, the TU58 tape cartridges and the HSC50 boot procedure. It also notifies installation personnel of an error in the permitted number of logic modules contained in an HSC50 without addition of an auxiliary power supply. A change bar indicates the affected portions of the manual.

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## CHANGE NOTICE

Replace Table 1-1 (page 1-4) in the HSC50 Installation Manual with the following table.

Table 1-1 HSC50 Specifications

DESCRIPTION	OPTION DESIGNATION
HSC50 MASS STORAGE SERVER	HSC50-AA = 60 HZ/120V
	HSC50-AB = 50 HZ/240V

### MECHANICAL

MOUNTING CODE	WEIGHT		HEIGHT		WIDTH		DEPTH		CAB TYPE (IF USED)
	LBS	KG	IN	CM	IN	CM	IN	CM	
FS	400	181.2	42	106.7	21.3	54.1	36	91.4	MODIFIED H9642

### POWER (AC)

AC VOLTAGE NOMINAL	AC VOLTAGE TOLERANCE	FREQUENCY & TOLERANCE	PHASE	STEADY-STATE CURRENT (RMS)	POWER CONSUMPTION (MAX)
120	104-128V	60 HZ ±1	3	13.5A	2228 WATTS
240	208-256V	50 HZ ±1	3	6.75A	2223 WATTS

### POWER (AC)

AMPS (MAX) BY PHASE			
120V	0A = 0.7	240V	0A = 0.44
	0B = 14.2		0B = 7.09
	0C = 13.5		0C = 6.75

### POWER (AC)

PLUG TYPE	POWER CORD LENGTH	INTERRUPT TOLERANCE	APPARENT POWER (KVA)
NEMA - L21 - 30P	15 FT (4.5 M)	4MS (MIN)	3.4 (KVA)

### POWER (AC)

INRUSH CURRENT 60HZ	INRUSH CURRENT 50HZ	SURGE DURATION
65A RMS	130A RMS	1 CYCLE

### DEVICE ENVIRONMENT

TEMPERATURE		RELATIVE HUMIDITY		RATE OF CHANGE		HEAT DISSIPATION	
OPERATING*	STORAGE	OPERATING	STORAGE	TEMP	HUMIDITY	BTU/HR	KJ/HR
50 - 104° F	-40 - 140° F	10 - 90%	10 - 90%	36° F/HR	20%/HR	7600	8021
10 - 40° C	-40 - +60° C			20° C/HR			

### DEVICE ENVIRONMENT

ALTITUDE (MAX)		AIR VOLUME (AT INLET)		AIR QUALITY
OPERATING	STORAGE	FT <sup>3</sup> /MIN	DAL/MIN	PARTICLE COUNT (MAX)
8000 FT	30,000 FT	210	75.6	N/A
2.4 KM	9.1 KM			

\* ALTITUDE CHANGES: DE-RATE THE MAXIMUM TEMPERATURE 1.8° C PER THOUSAND METERS (1.0° F PER THOUSAND FEET).

CX-280A

CHANGE NOTICE

Replace pages 2-3 and 2-4 in the HSC50 Installation Manual with the following information.

NOTE

Verify that there are two copies each of the HSC50 OFFLINE DIAGS tape cartridge, the HSC50 SYSTEM tape cartridge, and the HSC50 UTILITY tape cartridge. If copies of any are missing, refer to the TU58 Duplication Utility in Chapter 4 of the HSC50 User Guide. Use these HSC50 SYSTEM tape cartridges only on this HSC50.

14. Locate the TU58 tape drive inside the front door. Refer to Figure 2-2.
15. Insert the HSC50 OFFLINE DIAGS tape cartridge into Drive 0 of the TU58. Refer to Figure 2-2.
16. Push and release the Init switch to cancel the FAULT indicator and start the HSC50 boot procedure.
17. The following phases occur during the initial HSC50 OFFLINE DIAGS boot procedure.

After successful completion of the bootstrap, the offline I/O control processor (P.ioc) diagnostic is loaded. Notice that the TU58 run LED comes on to show that the tape is moving. When the offline I/O control processor diagnostic begins executing, the State indicator lights and the Init indicator turns off. This diagnostic then begins testing the I/O control processor module.

After successful completion of the offline I/O control processor diagnostic, the HSC50 offline diagnostic loader is read into memory. The TU58 run LED comes on indicating that this loader is being read into memory. When the loader starts executing, the State indicator starts pulsing and the front panel indicators pulse on and off in a rotating pattern to test the functionality of each indicator.

During operation, the State indicator continues to pulse.

## CHANGE NOTICE

Replace section 3.1 in the HSC50 Installation Manual with this new section 3.1.

### CHAPTER 3 ADD-ON INSTALLATION

This chapter describes the procedures for the installation of an add-on HSC50.

#### 3.1 ADD-ON INSTALLATION

Use the following procedure for add-on installations.

1. Use one of the following two methods to remove dc power to the HSC50. Turn the REMOTE/OFF/LOCAL ON switch to OFF. Refer to Figure 3-1. Or, push the dc Power switch on the maintenance panel to the 0 (OFF) position. Refer to Figure 3-2.
2. Open the HSC50 card cage cover by releasing the card cage cover locks. Refer to Figure 3-2.
3. Redistribute data channel modules and their respective external cables according to the guidelines in the SDI/STI cable installation (Chapter 1, Section 1.6.2).
4. Replace the appropriate module(s) in the module rack.

If there are now more than eight modules in this HSC50, a second (auxiliary) power supply must be installed. Refer to the auxiliary power supply installation procedure in Section 3.2.

#### CAUTION

Ensure that a baffle card is in each unused module slot and that the module cage cover is replaced to avoid internal overheating.

5. Replace the card cage cover and close the card cage cover locks.
6. Close the HSC50 front door.
7. Repeat the necessary steps in the field acceptance and checkout procedure in Chapter 2.