DIGITAL CLOCK DISTRIBUTOR

500 SERIES

CARD INFORMATION

1. GENERAL

1.01 This practice provides card information on the Telecom Solutions' MIS card straps and factory settings. Also included are the differences between the commands used with the latest MIS card and previous MIS cards. The differences between various card types is also listed. For information on any card not mentioned in this practice, refer to the manual that came with the shelf where the card is installed.

1.02 Whenever this practice is reissued, the reason for reissue will be given in this paragraph.

2. MIS CARD SWITCHES

2.01 The switches and straps for the Maintenance Interface, System (MIS) card (090-45018-25) are shown in Figure 1.

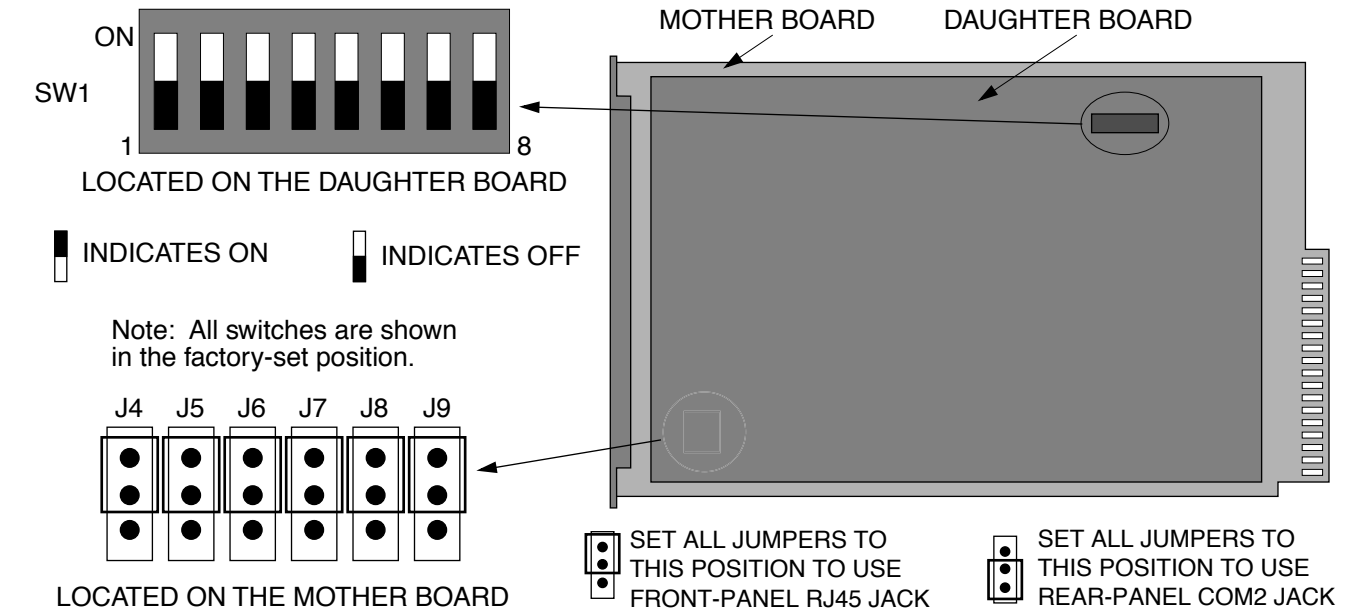## 3. FACTORY SETTINGS

3.01 The factory settings are listed in Table A.

4. COMMAND DIFFERENCES

4.01 Table B lists the commands as used with the MIS-23 (090-45018-23) and MIS-24 (090-45018-24) cards versus the commands used with the MIS-25 (090-45018-25) card. The correlation between the two sets of commands is not exactly one-for-one because some parameters were not setable in earlier versions, the function of two commands was combined into one, etc.

5. CARD DIFFERENCES

5.01 For card information, refer to the manual for the shelf where the cards are installed. However, three cards have differences from the information in the shelf manual. The three cards and the differences are pointed out in Table C.

ON

SW1

1　　　　　　　　　　　　　8

LOCATED ON THE DAUGHTER BOARD

■ INDICATES ON　　　□ INDICATES OFF

Note: All switches are shown
in the factory-set position.

J4　J5　J6　J7　J8　J9

LOCATED ON THE MOTHER BOARD

MOTHER BOARD　　　DAUGHTER BOARD

SET ALL JUMPERS TO
THIS POSITION TO USE
FRONT-PANEL RJ45 JACK

SET ALL JUMPERS TO
THIS POSITION TO USE
REAR-PANEL COM2 JACK

SW1 Section	Position	Description	Factory Setting
1	On	1200 baud	—
	Off	9600 baud	X
2 and 3	2=on, 3=any	Odd parity	—
	2=off, 3=on	Even parity	—
	2=off, 3=off	No parity	X
4	On	Password protection enabled	—
	Off	Password protection disabled	X
5	On	Causes an automatic download of the card configuration database from the MIS card to any other card whose database does not match the MIS database for that slot, such as: after a shelf power cycle, replacement of a card with the same card type, or replacement of the MIS card	—
	Off	Disables automatic database download	X
6	(Not used)		
7	On	Installed in an Expansion or Remote Shelf	—
	Off	Installed in a Master Shelf	X
8	On	Normal operation (do not change)	X

Note: Section 1(baud rate) affects COM 2 and the front panel RJ45 jack only. Both of these ports (COM 2 or front panel RJ45 jack) cannot be active at the same time. The active port is selected by jumpers.

Figure 1. MIS Card Switch

Table A. Factory Settings

CATAGORY	ITEM	SETTING
Security	User name	super (has an access level of 5)
	Password	sparky
	SID	TELECOM
Protection	Mode	Revertive
	Type	No protection
Monitoring Thresholds	BPV	13,340
	CRC	13,340
	OOF	1
	MTIE1	300 ns
	MTIE2	300 ns
	MTIE4	300 ns
	MTIE10	300 ns
	MTIE16	350 ns
	MTIE20	350 ns
	MTIE40	400 ns
	MTIE64	450 ns
	MTIE100	550 ns
	MTIE128	650 ns
	MTIE200	800 ns
	MTIE400	1000 ns
	MTIE512	1000 ns
	MTIE900	1000 ns
	MTIE1000	1000 ns
	MTIE2000	1000 ns
	MTIE4000	1000 ns
	MTIE10000	1100 ns
	MTIE20000	1200 ns
	MTIE40000	1400 ns
	MTIE86400	1850 ns

Table A. Factory Settings (Contd)

CATAGORY	ITEM	SETTING
Monitoring Thresholds (Contd)	TDEV1	100 ns
	TDEV2	100 ns
	TDEV3	100 ns
	TDEV4	100 ns
	TDEV5	100 ns
	TDEV6	100 ns
	TDEV7	100 ns
	TDEV8	100 ns
	TDEV9	100 ns
	TDEV10	100 ns
	TDEV16	125 ns
	TDEV20	140 ns
	TDEV30	175 ns
	TDEV40	200 ns
	TDEV50	225 ns
	TDEV60	245 ns
	TDEV64	255 ns
	TDEV70	265 ns
	TDEV80	285 ns
	TDEV90	300 ns
	TDEV100	315 ns
	TDEV128	360 ns
	TDEV200	450 ns
	TDEV300	550 ns
	TDEV400	635 ns
	TDEV500	710 ns
	TDEV600	775 ns
	TDEV700	840 ns
	TDEV800	895 ns
	TDEV900	950 ns
	TDEV1000	1000 ns

Table A. Factory Settings (Contd)

CATAGORY	ITEM	SETTING	
Communications (Notes 1, 2, 3)	Baud	Port 1:	9600
		Port 2:	9600
		Port 3:	9600
	Monitoring mode	Port 1:	allowed to view messages associated with other ports
		Port 2:	inhibited from viewing messages associated with other ports
		Port 3:	inhibited from viewing messages associated with other ports
	Keep alive	Port 1:	allowed to send out a COMPL message every 15 to 20 minutes
		Port 2:	inhibited from sending out a COMPL message
		Port 3:	inhibited from sending out a COMPL message
	Communication type	Port 1:	terminal
		Port 2:	terminal
		Port 3:	terminal
	End-of-text character	Port 1:	19 (hexadecimal)
		Port 2:	no end-of-text character
		Port 3:	no end-of-text character
	Echo	Port 1:	echo allowed
		Port 2:	echo allowed
		Port 3:	echo allowed
	Alarm/event messages	Port 1:	alarm/event messages are allowed to be sent
		Port 2:	alarm/event messages are allowed to be sent
		Port 3:	alarm/event messages are allowed to be sent
	Hardware flow	External equipment is inhibited from starting and stopping output messages by manipulating the clear-to-send (CTS) lead	
	Software flow	User is inhibited from starting and stopping output messages by using Control-s and Control-q key sequences	

Notes:
1. The baud rate for port 2 can only be changed by switch settings on the MIS card.
2. For communication parameters set by switches/straps on the MIS card, refer to Figure 1.
3. Communication parameters which cannot be changed are: character bits = 8 and start bits = 1.

Table B. Command Differences

COMMAND FOR MIS CARD PART NUMBER 090-45018-23 & 090-45018-24	COMMAND FOR MIS CARD PART NUMBER 090-45018-25
ACT-USER	ACT-USER
CANC-USER	CANC-USER
—	COPY-MEM
—	DLT-EQPT
—	DLT-PORT
DLT-USER-SECU	DLT-USER-SECU
INIT-SYS	ED-COM
SET-DAT	ED-DAT
ED-PRMTR-T1, SET-ATTR-T1	ED-EQPT
ED-SECU-PID	ED-PID
ED-PRMTR-T1	ED-PORT
ED-USER-SECU	ED-USER-SECU
—	ENT-EQPT
—	ENT-PORT
—	ENT-USER-SECU
ED-EQPT	INIT-COM
SET-ATTR-LOG	INIT-LOG
INIT-REG-T1	INIT-REG
INIT-SYS	INIT-SYS
OPR-ACO-ALL	OPR-ACO-ALL
—	OPR-PROTNSW
—	OPR-SYNCNSW
—	RLS-PROTNSW
—	RLS-SYNCNSW
—	RMV-EQPT
—	RMV-PORT
—	RST-EQPT
—	RST-PORT
RTRV-ALM-{ALLIEQPTIT1}	RTRV-ALM-{ALLIEQPTIPORT}
—	RTRV-ATTR-CONT
RTRV-ATTR-T1	RTRV-ATTR-PORT
RTRV-EQPT	RTRV-COM
RTRV-COND-{EQPTIT1}	RTRV-COND-{EQPTIPORT}
—	RTRV-EQPT

Table B. Command Differences

COMMAND FOR MIS CARD PART NUMBER 090-45018-23 & 090-45018-24	COMMAND FOR MIS CARD PART NUMBER 090-45018-25
—	RTRV-GPS-STAT
RTRV-HDR	RTRV-HDR
—	RTRV-INVENTORY
RTRV-LOG	RTRV-LOG
RTRV-PM-T1	RTRV-PM-PORT
—	RTRV-PORT
RTRV-TH-PORT	RTRV-TH-PORT
RTRV-USER-SECU	RTRV-USER-SECU
—	SET-ATTR-CONT
SET-ATTR-T1	SET-ATTR-PORT
SET-SID	SET-SID
SET-TH-T1	SET-TH-PORT

Table C. Card Differences

CARD IN THIS GUIDE		SIMILAR CARD IN SHELF MANUAL		DIFFERENCES BETWEEN CARD IN THIS GUIDE AND SIMILAR CARD IN SHELF MANUAL
CARD	PART #	CARD	PART #	
MIS -25	090-45018-25	MIS -05	090-45018-05	The MIS -25 has different factory settings (refer to Table A).
PSM-T	090-45025-53	PSM-T	090-45025-51	The PSM-T5 (090-45025-53) has these additional MITE points: MTIE2 MTIE200 MTIE10000 MTIE10 MTIE400 MTIE20000 MTIE20 MTIE1000 MTIE40000 MTIE40 MTIE2000 MTIE86400 MTIE100 MTIE4000 The PSM-T5S has these additional TDEV points: TDEV2 TDEV30 TDEV300 TDEV3 TDEV40 TDEV400 TDEV5 TDEV50 TDEV500 TDEV6 TDEV60 TDEV600 TDEV7 TDEV70 TDEV700 TDEV8 TDEV80 TDEV800 TDEV9 TDEV90 TDEV900 TDEV10 TDEV100 TDEV1000 TDEV20 TDEV200
ST2E	090-40017-22	ST2E	090-40017-02	The ST2E (090-40017-22) has an input tolerance of 5×10^{-9}
Note: Refer to the similar card in the shelf manual for all other information about the card.				