Model MRC-1 Microprocessor Remote Control Reference Data; Remote Terminal

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The following is a condensed description of M key sequences and functions for quick referen	
SELECT NEW CHANNEL:	XXCH
ADVANCE ONE CHANNEL:	CH
SELECT NEW SITE:	XISITE
INVERT/DEINVERT STATUS CHANNEL:	INV
LATCH/UNLATCH STATUS CHANNEL:	SHFT LATCH
ADD/REMOVE FALLING EDGE ALARM	1
ADD/REMOVE RISING EDGE ALARM	SHFT
RELEASE ALL LATCHED CHANNELS	SHFT STAT CLR
CALIBRATE, LINEAR MODE	XXXXLIN
CALIBRATE, POWER MODE XX (Sign of XXXX) must be positive)	XXXSHFT POWER
CALIBRATE, INDIRECT MODE: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
ESTABLISH LOWER LIMITS: (Point position of limit need not match point position of calibration)	XXXX LOW LIM
DISPLAY LOWER LIMIT:	LOWILIM
REMOVE LOWER LIMIT: 🍊	O LOW LIM
ESTABLISH UPPER LIMIT: XXXX (Point position of limit need not match point position of calibration)	X SHFT UPPER LIM
DISPLAY UPPER LIMIT:	SHFT UPPER LIM

REMOVE UPPER LIMIT: Ø SHFT UPPER LIM
ENABLE/DISABLE LIMIT CHECKING: LIMS
ESTABLISH RAISE CHANNEL: XX SHFT MAP RAISE

DISPLAY RAISE CHANNEL:

REMOVE RAISE CHANNEL:

XX SHFT MAP RAISE
SHFT MAP RAISE

O SHFT MAP RAISE

ESTABLISH LOWER CHANNEL: XXSHFT MAP LOWER

DISPLAY LOWER CHANNEL: SHFT MAP LOWER

REMOVE LOWER CHANNEL: 0 SHFT MAP LOWER

Denotes front panel key

"Shift Key", chassis labeled

X Denotes your entry

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MRC-1 Reference Data; Remote Terminal

ESTABLISH LATCHING COMMAND CHANNEL:

XX SHFT MAP RAISE X X SHFT MAP LOWER

(Where X X in both lines is the channel to be made latching)

RAISE:

RAISE

LOWER:

LOWER

TURN ON LATCHING COMMAND CHANNEL:

RAISE

TURN OFF LATCHING COMMAND CHANNEL:

LOWER

ESTABLISH MUTE CHANNEL:

X X SHFT MUTE

A. Mute condition occurs when mute channel

is "OFF" (after latch and invert, if applicable.)

B. No limit checking during mute condition or for 4 seconds thereafter.

DISPLAY MUTE CHANNEL:

SHFT MUTE

REMOVE MUTE CHANNEL:

0 SHFT MUTE

ACKNOWLEDGE ALARM:

ACK ACK

A. First push displays channel number and condition, silences audible alarm.

B. Second push ends flashing alarm indication.

C. In the case of limit violations, steadilyon alarm indication will persist until: analog value is back in bounds; or, mute status begins; or, limit checking is disabled.

BEGIN LAMP TEST:

LAMP TEST

END LAMP TEST:

LAMP TEST

BEGIN MAINTENANCE OVERRIDE:

MAINT O'RIDE

A. Ends any failsafe condition.

B. Inhibits any RAISE/LOWER commands from control end.

END MAINTENANCE OVERRIDE

MAINT O'RIDE

Resets failsafe timers.

B. Inhibits commands from remote end.

ESTABLISH TM FAILSAFE CHANNEL N: (N=1 to 4)

XXSHFTN

Telemetry failsafe takes place if the analog value on any established telemetry failsafe channel remains below about 0.3 volts for 1 hour, or the Control Terminal fails to receive transmissions from the Remote Terminal for 1 hour. Telemetry failsafe ends if all four telemetry failsafe channels fall to zero.

DISPLAY TM FAILSAFE CHANNEL N:

REMOVE TM FAILSAFE CHANNEL N:

0 SHFT

MISCELLANEOUS:

Control failsafe takes place if a Remote Terminal receives no successful communications directed to it for 45 seconds.

Alarms are disabled for 10 seconds after reset.

CALIBRATION OVERFLOW DISPLAY:

EEEE

A/D SATURATION DISPLAY (6144 COUNTS)



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Microprocessor Remote Control Reference Data; Control Terminal

The following is a condensed description of MRC-1 Control Terminal key sequences and functions for quick reference purposes.

Unrestricted Functions

CHANGE SELECTED SITE:

XSITE

CHANGE SELECTED CHANNEL:

XXCH

ADVANCE 1 CHANNEL:

CH

RAISE:

RAISE

Raise and Lower commands will be ignored if the remote site is in Maintenance Override mode.

LOWER:

LOWER

ACKNOWLEDGE ALARM:

ACK ACK

- A. First push displays site number, channel number and condition, silences audible alarm.
- B. Second push ends flashing alarm indication.
- C. Steadily-ON alarm indication will persist until:

Limit Violation Alarms:

Telemetry value is back in bounds; or Mute status begins; or Limit checking is disabled.

Data Link Alarms:

Errors return to an acceptable level over an 18 minute cycle.

Telemetry Failsafe Alarms:

Successful return communication.

System Error Alarms:

System error condition ends.

BEGIN LAMP TEST:

LAMP TEST

END LAMP TEST:

LAMP TEST

RESET LATCHED STATUS CHANNELS:

STAT CLR

DISPLAY FIRST/NEXT

ALARM CONDITION:

ALRM SRCH

Alarm Search proceeds in numerical order by site and within each site in numerical order by channel. Acknowledged status alarms will continue to be selected during alarm searches until the status channel experiences another transition after the alarm.

Denotes front panel key

X Denotes your entry

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Restricted Functions

After a memory-bad reset, or upon powering up for the first time, the SET-UP key works on a push-on/ push-off basis. (This is termed "UNCONTROLLED" mode.)

Below, MMMM represents the factory-set master password, and SSSS represents (according to context) the existing or desired secondary password.

Enable Restricted Keys if in

"UNCONTROLLED" Mode:

SET UP

Disable Restricted Keys:

SET UP

Enable Secondary Password if it is Disabled.

(Enter "CONTROLLED" Mode)

MMMMSETUPSSSSETUP

Enable Restricted Keys in "CONTROLLED"

Mode:

SET UP S S S SET UP

Change Secondary

Password:

SET UP SET UP M M M M

SET UP S S S S SET UP

Disable Secondary Password:

(Return to "UNCONTROLLED" Mode)

SET UP SET UP M M M M SET UP 0 SET UP

These require use of the SET UP key for access (see above).

ESTABLISH UPPER LIMIT:

XXXXHILIM

DISPLAY UPPER LIMIT:

HI LIM

REMOVE UPPER LIMIT:

O HI LIM

ESTABLISH LOWER LIMIT:

XXXXLOLIM

DISPLAY LOWER LIMIT:

LO LIM

REMOVE LOWER LIMIT:

0 LO LIM

ENABLE/DISABLE LIMIT CHECKING:

: LIMS

ENABLE/DISABLE SITE:

SITE ENAB

Miscellaneous

CALIBRATION OVERFLOW DISPLAY:

EEEE

A/D SATURATION DISPLAY:

DISPLAY REMAINING TM FAILSAFE

COUNTDOWN TIME:

0 CH

