



# HPA REMOTE PANELS AND HAND-HELD CONTROLLERS

FOR SATELLITE UPLINK APPLICATIONS



MTR1

## REMOTE PANEL FEATURES:

Single Rack Unit

Capability To Control And Monitor Up To 10 HPAs

Main Screen Parameter Display For Two HPAs At One Time

## HAND-HELD FEATURES:

Touch Screen

Hand-Held Pocket PC

Computer Interface Software

Diagnostic Port

Available In Ruggedized And Non-Ruggedized Versions



MTRH



ISO 9001



501 S. Woodcreek Road, Bolingbrook, IL U.S.A., 60440-4999 • 630-759-9500 FAX: 630-759-5018

# HPA REMOTE PANEL AND HAND-HELD CONTROLLERS

## CONTROL AND STATUS CAPABILITIES

TYPE	FUNCTION
Local Controls	Filament ON/OFF Units Select Fault Counter ON/OFF Transmit/Standby Hold Power ON/OFF Antenna Position (1:1) RF ON/OFF Auto Switching (1:1) Load Position (1:1) Reset Manual Switching (1:1) Local Remote Computer Attenuation
Adjustable Parameters	Auto Power Tube Overdrive Alarm Tube Temperature Alarm RF Reflected Power Alarm RF Low Alarm RF High Alarm Comm Address Comm Band Rate
Meters	RF Forward Power Tube Drive RF Reflected Power Helix Voltage Helix Current Filament Current Tube Temperature PS Temperature
Reports	Event Log Single HPA Fault Summary HPA Fault Single HPA Alarm Summary HPA Alarm Communication Fault

## REMOTE PANEL SPECIFICATIONS

### ELECTRICAL SPECIFICATIONS

#### Power Requirement:

Voltage: 100–240 VAC single phase  
Frequency: 50/60 Hz  
Current: 0.8A max.  
Power  
Connector: IEC 320

#### Communications:

RS485: DB9 male  
(4 wire)  
Baud Rate: 9600

### MECHANICAL SPECIFICATIONS

#### Dimensions:

1.75" H x 19.00" W x 4.5" D

#### Installed Weight:

2 lbs. max.

### ENVIRONMENTAL SPECIFICATIONS

#### Operating Temperature:

0°C to +50°C (derated 1.9°C per 1,000 ft. above sea level)

#### Non-Operating Temperature:

-40°C to +70°C

#### Relative Humidity:

95%, non-condensing

#### Operating Altitude:

10,000 ft. above sea level (3,048 m)

#### Non-Operating Altitude:

50,000 ft. above sea level (15,240 m)

#### Vibration:

Basic Transportation, MIL-STD-810E, Cat. 1, Figures 514.4.1-514.4.3

#### Shock:

10g, 11ms half sine pulse along each of 3 orthogonal axes

## HAND-HELD CONTROLLER SPECIFICATIONS (RUGGEDIZED)

### ELECTRICAL SPECIFICATIONS

#### Power Requirement (Battery Charger):

Voltage: 100-240 VAC single phase  
Frequency: 50/60 Hz  
Current: 0.5A max.

#### Controller Interface:

RS232: 6 ft. cable supplied (a good quality, customer supplied, 9 pin shielded cable should be able to extend this to at least 30 ft.)

RS485: 6 ft. cable supplied (can be attached to HPA or to customer's existing RS485 multi-drop network)

### MECHANICAL SPECIFICATIONS

#### Dimensions:

1.00" H x 3.63" W x 7.00" L

#### Installed Weight:

14 oz. max.

### ENVIRONMENTAL SPECIFICATIONS

#### Operating Temperature:

0°C to +50°C (extended temp. range optional)

#### Non-Operating Temperature:

-25°C to +50°C

#### Relative Humidity:

95%, non-condensing

#### Operating Altitude:

10,000 ft. above sea level (3,048 m)

#### Weather:

IP54 (windblown, rain and dust)

Non-ruggedized specifications available upon request

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