

# MFT/MFR SERIES Telephone and Ringdown Panel Inserts



MFT-30 with  
Curly Handset Cord



MFT-40 with  
Armored  
Handset Cord



MFR-11 with Curly  
Handset Cord



MFR-41 with  
Armored  
Handset Cord

## MFT/MFR SERIES TELEPHONE PANEL INSERTS

Guardians MFT/MFR SERIES Telephone Panel Inserts have been designed to replace the electronic components in older models of Northern Telecom weatherproof telephone sets which are already installed in field locations.

## MFT/MFR SERIES ANALOG NON-HAZARDOUS TELEPHONE PANEL INSERTS

- MFT-30 - Metal Keypad/Volume Control Handset/Heavy Duty Coil Cord
- MFT-40 - Metal Keypad/Volume Control Handset/Armored Cord
- MFR-11 - Metal Keypad/Volume Control Handset/Heavy Duty Coil Cord
- MFR-41 - Metal Keypad/Volume Control Handset/ Armored Cord
- MFT-30N - Notched Panel MFT-30 Insert
- MFR-11N - Notched Panel MFR-11 Insert

## FEATURES and BENEFITS

- Replaces inserts in Northern Telecom Weatherproof sets
- Magnetic reed hook-switch to reduce parts subject to wear
- Metal keypad or ringdown operation
- Encapsulated circuitry impervious to water and dust
- Simple field installation
- Water proof connections & stainless steel fittings for longer life
- Fits standard and locking enclosures
- Lift the MFR-11 or MFR-41 handset and PBX programming or an optional Auto Dialer routes the call to its assigned location

## INSTALLATION and CONNECTABILITY

Guardian Telecom's MFT Telephone Panel Inserts and MFR Ringdown Telephone Panel Inserts are designed specifically to fit the Northern Telecom Weatherproof Telephone Set, (NT9G60 AA through NT9G60 AD). Inserts contain standard telephone wiring and parts and are compatible with the telephone network. Initial tone/pulse setting is performed prior to delivery. In-service switching may require technical assistance. Calls from the model MFR are routed by PBX programming or an optional internal Auto Dialer.

For locking enclosures the MFT-30N & MFR-11N are notched insert versions of the MFT-30 & MFR-11



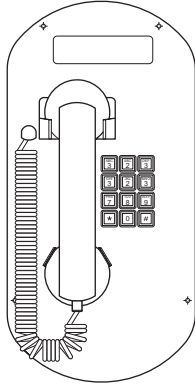
MFT-30N

MFR-11N

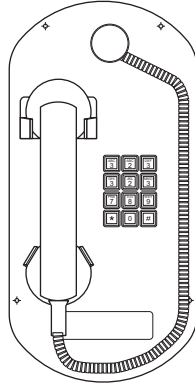
### Disclaimer

Northern Telecom and NT logotype are trademarks of Northern Telecom Inc. and are used solely to identify their weatherproof telephone. Use of the name and trademark does not imply Northern Telecom's endorsement or approval of this product. Establishment of specifications, operation and warranty of the product are the sole responsibility of Guardian Telecom.

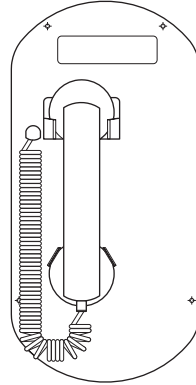
## OVERALL DIMENSIONS



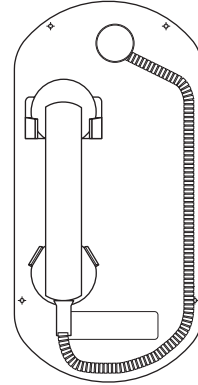
**MFT-30**  
Telephone Panel Insert  
with Volume Control and  
Curly Handset Cord



**MFT-40**  
Telephone Panel Insert  
with Volume Control and  
Armored Handset Cord



**MFR-11**  
Ringdown Panel Insert  
with Volume Control  
Handset and Curly Cord



**MFR-41**  
Ringdown Panel Insert  
with Volume Control  
Handset and Armored Cord

MFT-30 & MFT-40 Telephone Panel Inserts • MFR-11 & MFR-41 Ringdown Telephone Panel Inserts

## ENGINEERING SPECIFICATIONS

### ELECTRICAL PERFORMANCE

|  |  |
|--|--|
| Audio Range Frequency Response             | 300 - 3400 Hz                            |
| Dialing Method (MFT-30/40)                 | DTMF or 40/60 Pulse @10 PPS              |
| Transmit Objective Loudness Rating (TOLR)  | Nominal -41 +/- 4 dB                     |
| Receiver Volume Adjustment                 | 3 Steps Up / 2 Steps Down 8.1dB / 5.1 dB |
| Receiver Objective Loudness Rating (ROLR)  | Nominal 52 +/- 3 dB                      |
| – receiver volume at maximum               | 41.9 +/- 3 dB                            |
| – receiver volume at minimum               | 55.4 +/- 3 dB                            |
| Side Tone Objective Loudness Rating (SOLR) | Nominal -11 +/- 4 dB                     |
| – receiver volume at maximum               | 7 +/- 4 dB                               |
| – receiver volume at minimum               | 14 +/- 4 dB                              |
| Ringer Output                              | >75 dB                                   |
| FCC Ringer Equivalence                     | 0.8 B                                    |
| Set Impedance                              | 600 Ohms Nominal                         |
| Maximum Loop                               | 15Kft ( ~4,600m ) of 22 AWG Wire         |

### ELECTRICAL REQUIREMENTS

|                    |                       |
|--------------------|-----------------------|
| Ringer Sensitivity | 40 -100 V, 16 - 25 Hz |
| Line Voltage       | 24 - 56 VDC           |
| Loop Current       | 20 - 120 mA           |
| Connection Method  | Surge Arrestor        |

### MECHANICAL SPECIFICATIONS

|                                    |   |
|------------------------------------|---|
| Hook Switch ( Cradle Switch ) Life | >1 000 000 Operations                       |
| Faceplate Construction             | 16 Ga CRS Steel                             |
| Finish                             | Zinc Dichromate Plated & Powder Coated      |
| Shipping Weight                    | 4.5 lbs ( 2.0 kg )                          |
| Shipping Dimensions ( L x W x D )  | 15.0" x 5.0" x 11.5" ( 381 x 127 x 293 mm ) |
| Hand Set Construction              | High Impact Polycarbonate                   |
| Microphone                         | Noise Reducing Electret                     |
| Receiver                           | Hearing Aid Compatible                      |
| Hardware Material                  | Stainless Steel                             |

### ENVIRONMENTAL

|                            |                                  |
|----------------------------|----------------------------------|
| Temperature                | -76° to +176°F ( -60° to +80°C ) |
| Humidity                   | 0 - 95% RH Non-Condensing        |
| Dust & Corrosion Resistant | Full Gasket Faceplate            |

### COMPLIANCE

|                 |                    |
|-----------------|--------------------|
| Industry Canada | 1012-6721A         |
| FCC             | HQHCAN-22517-TE- E |

### ORDERING INFORMATION

Warranty: Three years parts and labor

| Order No.      | Description   |
|----------------|---|
| P5426          | MFT-30 Metal Faceplate Telephone Panel Insert/Metal Keypad/<br>Volume Control Handset/Curly Cord<br>– (replaces Northern Telecom Product NT9G0AA) |
| P5427          | MFT-40 Metal Faceplate Telephone Panel Insert/Metal Keypad/Volume<br>Control Handset with Armored Cord  |
| P5428          | MFR-11 Metal Faceplate Ringdown Panel Insert/Volume Control Handset/<br>Curly Cord – (replaces Northern Telecom Product NT9G0AB)                  |
| P5429          | MFR-41 Metal Faceplate Ringdown Panel Insert/Volume Control Handset/<br>Armored Cord  |
| P5430          | MFT-30N Notched MFT-30 insert   |
| P5431          | MFR-11N Notched MFR-11 insert   |
| <i>Options</i> |   |
| AD-ACR         | Auto Dialer Only available on Ringdown models   |

Distributed by:



GUARDIAN TELECOM, a division of CIRCA ENTERPRISES INC.  
Calgary, Alberta, Canada  
Telephone: 403 258-3100 Facsimile: 403 253-4967  
1-800-363-8010 (North America)  
info@guardiantelecom.com | www.guardiantelecom.com