

# MFT MFR SERIES

## Telephone and Ringdown Panel Inserts

### 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

### 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.



MFT-30 with  
Curly Handset Cord



MFT-40 with  
Armored  
Handset Cord



MFR-11 with Curly  
Handset Cord

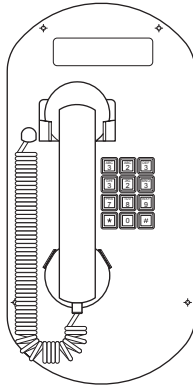


MFR-41 with  
Armored  
Handset Cord

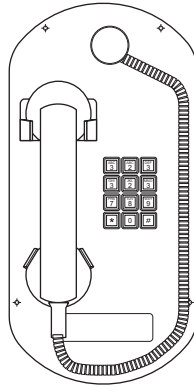
## MFT MFR SERIES TELEPHONE PANEL INSERTS

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.

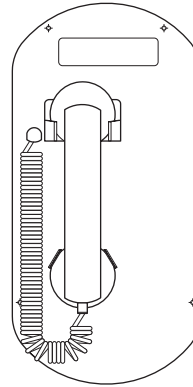
## OVERALL DIMENSIONS



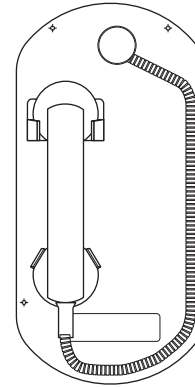
**MFT-30**  
Telephone Panel Insert  
with Volume Control and  
Curly Handset Cord



**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  
FCC



1012-6721A  
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/ Volume Control Handset/Curly Cord — (replaces Northern Telecom Product NT9G0AA)
P5427	MFT-40 Metal Faceplate Telephone Panel Insert/Metal Keypad/Volume Control Handset with Armored Cord
P5428	MFR-11 Metal Faceplate Ringdown Panel Insert/Volume Control Handset/ Curly Cord — (replaces Northern Telecom Product NT9G0AB)
P5429	MFR-41 Metal Faceplate Ringdown Panel Insert/Volume Control Handset/ Armored Cord

Options	
AD-ACR	Auto Dialer Only available on Ringdown models

Distributed by:



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