



Portable Antenna (115-860 MHz)

MODEL NUMBER: SMANT(M)-FT-NITI

PLEASE VERIFY:

1. **Parts List:** This package consists of an antenna only.
2. **Frequency and Bandwidth:** The frequency is determined by mast length. Bandwidth varies depending on the frequency (see attached cut chart for frequency and bandwidth information).



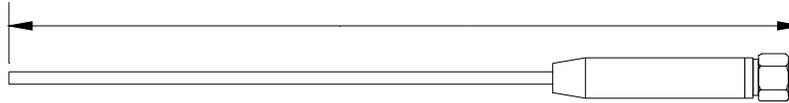
INSTALLATION:

This antenna is designed to be installed directly on the RF connector of the transmitter. The antenna utilizes the metal housing of the transmitter as a counterpoise and will not work without this ground.

1. **SWR:** A measurement of SWR (**S**tanding **W**ave **R**atio) should yield better than 2:1 within the band of operation when properly tuned per the attached cut chart.
2. **Continuity:** A test of continuity between the center pin and ground for this antenna will show as an open.



MAST LENGTH IS MEASURED INCLUDING
MAST, SMA CONNECTOR AND WHIP



CUT CHART-SMANT-FT-NITI-ANT

CTR. FREQUENCY (MHz)	BANDWIDTH (MHz) VSWR <2:1	LOW FREQUENCY (MHz)	HIGH FREQUENCY (MHz)	MAST LENGTH (INCHES)*
121	18.0	112.00	130.00	24.9
136	24.0	122.00	146.00	21.5
146	20.0	138.00	158.00	20.5
155	24.0	143.00	167.00	19.0
165	27.0	150.00	177.00	17.4
180	30.0	165.00	195.00	16.3
200	40.0	180.00	220.00	14.3
220	30.0	205.00	235.00	13.0
240	40.0	220.00	260.00	11.7
260	40.0	240.00	280.00	10.5
280	50.0	260.00	310.00	9.5
325	75.0	300.00	375.00	8.2
400	70.0	360.00	430.00	7.1
450	42.0	428.00	470.00	6.4
500	80.0	460.00	540.00	5.7
600	110	540.00	650.00	4.8
700	160	630.00	790.00	4.2
860	240	760.00	1GHz	3.6

NOTE: Mast are cut with SMA Connector.