

LPM-28/3030/3100/95

- VHF/UHF
- DUAL POLARIZED
- HIGH GAIN
- LOG PERIODIC

Applications

The VHF dual polarized log periodic antenna, normally used in surveillance activities, has two independent (one horizontal, one vertical polarized) outputs and is designed for RF reception in extremely hostile environments.

Features

The antennas are heavy duty and built to withstand high winds with icing conditions. All materials have good corrosion resistant qualities.

Characteristics

Available in a mast-mounted version with either a powered or manual pedestal, or in a back-mounted configuration for single-directional coverage.

Equipment Supplied

LPM-28A (AN-GSA-131 (V)1) Dual polarized LP array, fiberglass mast, feed harness, electric pedestal, and remote control.

LPM-28B (AN-GSA-131 (V)2) Dual polarized LP array, fiberglass mast, feed harness, and manual pedestal.

LPM-28C (AN-GSA-131 (V)3) Dual polarized LP array, back-mount kit, and feed harness.

LPM-28D (AS-3654/G) The antenna (AS-3653/G), a support mast (AB-1317/G), a control group (AB-1316/G) consisting of pedestal, control cable, and control indicator.

LPM-28E (AS-3655/G) The antenna (AS-3653/G), a support mast (AB-1317/G), and manually-operated pedestal (AB-1315/G).

LPM-28F (AS-3656/G) The antenna (AS-3657/G) and antenna support base (AB-1318/G) which includes an adapter and a backmount assembly for supporting the antenna from the rear of the boom.

LPM-3030 and LPM-3100 The antenna and support mast. Any pedestal must be purchased as a separate line item (optional).

LPM-95 A horizontal and vertical log periodic array supported by a fiberglass mast. The antenna is steered in azimuth by a rotator, either electric or manual (optional). Each of the antennas can be supplied as LPH (horizontal) array or LPV (vertical) array in lieu of dual polarizations (optional).

Optional Equipment

TS-1A (70-foot Tower)

TS-9A (20-foot Tower)

Manual positioner

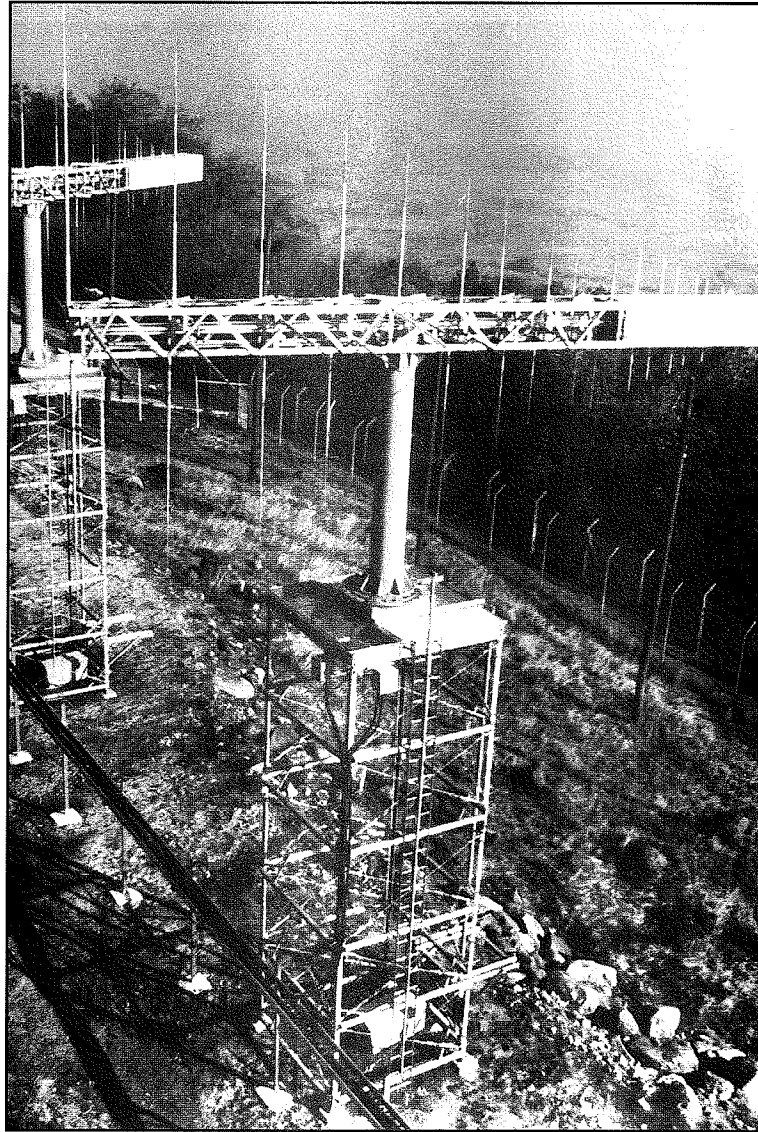
Electric positioner



SPECIFICATIONS	LPM-28A	LPM-28B	LPM-28C	LPM-28D
Frequency, MHz	20-100	20-100	20-100	20-1000
Input Impedance, Ohms	50	50	50	50
VSWR	2:1 max	2:1 max	2:1 max	2.5:1
Power	Receive	Receive	Receive	Receive
Gain	7.9 dBi, avg	7.9 dBi, avg	7.9 dBi, avg	7 dBi, avg
E- Plane Beamwidth	65° typical	65° typical	65° typical	70° typical
H- Plane Beamwidth	103° typical	103° typical	103° typical	120° typical
Polarization	Horizontal & Vertical	Horizontal & Vertical	Horizontal & Vertical	Horizontal & Vertical
RF Inputs	2	2	2	2
Front to Back Ratio	15 dB	15 dB	15 dB	15 dB
MIL Nomenclature	AN/GSA-131 (V)1	AN/GSA-131 (V)2	AN/GSA-131 (V)3	AS-3654/G
Primary Power	105-135 VAC, 48-62 Hz, 1000 watts	N/A	N/A	105-135 VAC, 48-62 Hz, 1000 watts
Wind and Ice	100 mph wind with no ice 60 mph wind with 1/2" ice	100 mph wind with no ice 60 mph wind with 1/2" ice	100 mph wind with no ice 60 mph wind with 1/2" ice	100 mph wind with 2" ice 75 mph wind with 2-1/2" ice
Size (feet) LxWxH	35x25x25	35x25x25	35x25x25	35x25x25
Weight (Lbs)	3,030	1,917	2,180	4,044
Pedestal	Electric	Manual	Backmount	Electric

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LPM-28E	LPM-28F	LPM-3030	LPM-3100	LPM-95
20-1000	20-1000	30-300	30-1000	100-1000
50	50	50	50	50
2.5:1	2.5:1	2.5:1	2.5:1	2.5:1 maximum
Receive	Receive	Receive	Receive	Receive
7 dBi, avg	7 dBi, avg	7 dBi, avg	7 dBi, avg	7 dBi, avg
70° typical	70° typical	70° typical	70° typical	70° typical
120° typical	120° typical	120° typical	120° typical	120° typical
Horizontal & Vertical	Horizontal & Vertical	Horizontal & Vertical	Horizontal & Vertical	Horizontal & Vertical
2	2	2	2	2
15 dB	15 dB	15 dB	15 dB	15 dB
AS-3655/G	AS-3656/G	—	—	—
N/A	N/A	N/A	N/A	N/A
100 mph wind with 2" ice	100 mph wind with 2" ice	120 mph, no ice	120 mph, no ice	200 KM/HR wind
75 mph wind with 2-1/2" ice	75 mph wind with 2-1/2" ice	90 mph, 1/4" ice	90 mph, 1/4" ice	with 2" ice
35x25x25	35x25x25	60 mph, 1/2" ice	60 mph, 1/2" ice	
3,361	3,077	15x16.5x16.5	18x16.5x16.5	8x5.5x5.5
Manual	Backmount	1,288	1,288	550
		Optional	Optional	Optional