

## 1.8m RECEIVE-ONLY OFFSET ANTENNA SYSTEM

- ◆ One-piece thermoset-moulded offset reflector.
- ◆ Single bolt fine elevation adjustment (Az/EI).
- ◆ Galvanised 20mm O.D. feed support legs.
- ◆ Factory pre-assembled mount.
- ◆ Galvanised and steel hardware for maximum corrosion resistance.
- ◆ Available with a wide variety of C-Band or Ku-Band feed options.



**Az/EI Mount (Galv)**



The Channel Master® Type 180 Offset Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-moulded for strength and surface accuracy. Moulded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain its critical parabolic shape.

The Az/EI mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. Four heavy-duty lockdown bolts secure the mount to any 114mm O.D. mast and prevents slippage in high winds. A specially formulated powder paint process offers excellent protection from weather-related corrosion. Hot-dip galvanising is optional for extreme environmental conditions.

### SPECIFICATIONS

#### RF PERFORMANCE

EFFECTIVE APERTURE:

#### C-BAND

1.8m

#### KU-BAND

1.8m

OPERATING FREQUENCY:

3.7 - 4.2 GHz

10.70 - 12.75 GHz

POLARISATION:

Linear/Circular

Linear/Circular

GAIN @ 11.95 GHz:

35.3 dBi

45.5 dBi

3 dB BEAMWIDTH:

3.0°

.99°

ANTENNA NOISE TEMPERATURE

@ 30° ELEVATION:

30°K

23°K

VSWR (MAX.):

1.3:1

1.3:1

CROSS-POLARISATION

DISCRIMINATION (LINEAR):

>30 dB on axis

>30 dB on axis

FEED CLAMP DIAMETER:

CPR-229

40mm (23mm insert optional)

#### MECHANICAL PERFORMANCE

REFLECTOR MATERIAL:

Glass fiber reinforced polyester

ANTENNA OPTICS:

One-piece offset

MOUNT TYPE:

Elevation over azimuth (Az/EI)

ELEVATION ADJUSTMENT RANGE:

10°-70° Continuous fine adjustment

AZIMUTH ADJUSTMENT RANGE:

360° Continuous

MAST PIPE INTERFACE:

114mm diameter

WIND LOADING:

80 km/h operational

200 km/h survival

REFLECTOR SIZE:

182cm x 197cm

TEMPERATURE:

-50°C to 80°C

HUMIDITY:

0 to 100% (condensing)

ATMOSPHERE:

Salt, pollutants and contaminants as encountered in coastal and industrial areas

SOLAR RADIATION:

360 BTU/h/ft<sup>2</sup>

SHOCK AND VIBRATION:

As encountered during shipping and handling

WEIGHT/DIMENSION:

1.8m - 47.5kg (201 x 189 x 22cm)

Az/EI - 23kg (66 x 66 x 30cm)

Specifications subject to change without notice.

# ANTENNA

Expertise in Design and Innovation