

## SEMATRON TP - 100

### 1.0M Ku-Band Quick Deploy Terminal MAVERICK Certified

- 1.0M Segmented Carbon Fibre Reflector
- Ultra-Portable
- No-Tools Assembly
- MPAD Manual Point Aid (very easy to line up)
- Integrated GPS & Electronic Compass
- 5W Ku-Band Transceiver
- 8W BUC / LNB
- Optional Dual Band (Ka & Ku)
- Two Soft Cases (under 23kg) for Complete System
- 240VAC / Battery / 12VDC Power Options



The TP-100 is the latest in the ultra-fast, quick deployable antenna systems from Holkirk Communications. It is ideal for store and forward, breaking news, occasional or permanent satellite communication.

**Robust** - The design includes 1.0M high gain carbon fibre reflector, 'no-tools' assembly, folding feed arm assembly, quick deploy tri-pod, inclinometer and fine adjust on Azimuth and Elevation. The tri-pod has detachable sand feet to allow for ground anchors to be fitted ensuring maximum stability for reliable operation.

**Flexibility** - The unique design of the TP100 will not only allow for operation on traditional Ku-Band satellites but also allow access to multiple Ka-Band payloads, increasing the number of options to get your important data uploaded. The lightweight, high quality and reliable construction in conjunction with high gain 1M carbon reflector will ensure excellent performance even at the extremities of satellite footprint.

**Ease of Pointing** - The TP100 has been designed to assist in the pointing to any satellite. It has an integrated GPS, electronic compass and inclinometer that will give the user a target Azimuth/Elevation and Polarisation position and actual read-out for the true position of the axis.

**Clever Power Options** - The TP100 in conjunction with the ruggedized outdoor modem (ODU) can be powered from a variety sources, either from a 240V via a PSU, direct from a 12V vehicle supply or from standard camera batteries (Vee-lock, PAG etc).



#### Options

- Sand Feet
- ODU Modem
- MPAD2 Pointing Aid
- 8W BUC & LNB (separate PSU is required).

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## Specification

|                |                                      |
|----------------|--------------------------------------|
| Receive (GHz)  | 10.7 -12.75GHz 14.0                  |
| Transmit (GHz) | -14.5 GHz (5W)<br>13.75-14.5GHz (8W) |

## Mid-band Gain

|          |          |
|----------|----------|
| Receive  | 40.1 dBi |
| Transmit | 41.8 dBi |

Polarisation Cross or Co-POL (switchable on 5W only)

|                   |                            |    |
|-------------------|----------------------------|----|
| BUC Power Options | Skyware Global Transceiver | 5W |
|                   | Comtech                    | 8W |

|                 |         |       |
|-----------------|---------|-------|
| Elevation Range | Coarse: | 5-90° |
|                 | Fine:   | ±10°  |

|                                      |   |
|--------------------------------------|---|
| Polarisation                         | ±90°                                    |
| Ambient Temperature Operational:     | -20°C to +50°C                          |
| Solar Radiation                      | 1,200 W/m <sup>2</sup>                  |
| Wind Speed (with ballast or anchors) | 20m/s (45 mph)                          |
| Operating Humidity                   | 100% condensing                         |
| Rainfall Maximum                     | 100 mm/h (4 in/h) excluding link budget |
| Altitude                             | effects Up to 3,000 m (9,850 ft)        |
| Survival                             | Up to 10,000 m (32,800 ft)              |

|        |  |
|--------|--|
| Case 1 | Antenna, Tripod 75x51x46cm (15kg)        |
| Case 2 | Feed Arm & Transciever 75x47x38cm (15kg) |