

INPUT SPECIFICATION	Options
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|-----------------------------------|--|
| 1. Input Range: | Two or more segments of:
3.4 - 4.2GHz, 7.25 - 7.75GHz, 10.7 - 12.75GHz |
| 2. Input connectors: | SMA |
| 3. Number of inputs | Pol 1 / Pol 2 , separate inputs for C, X and Ku-band. Active band selected by front panel or remote interface frequency selection. Pol selection via front panel or remote interface. |
| 4. Impedance: | 50Ω |
| 5. Input return loss: | 15dB typical |
| 6. Nominal beacon input level: | -80dBm |
| 7. Maximum beacon input level: | -70dBm |
| 8. Maximum aggregate power level: | -30dBm |

OUTPUT SPECIFICATION

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|-----------------------|---|------------------|
| 9. Range: | ±10V DC | 0V to 10V DC (*) |
| 10. Scale: | Logarithmic | |
| 11. Connector: | BNC (also interface connector) | |
| 12. Impedance: | 0Ω (ideal voltage source, maximum current 5mA) | |
| 13. Adjustment range: | Output adjustable to 0V for input power levels from -70dBm to -110dBm | |
| 14. Display: | 16-character alphanumeric LCD | |
| dB mode: | -199.9 to +199.9 | |
| Volts mode: | -9.99 to +9.99 | |

TRANSFER CHARACTERISTICS

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|-----------------------------------|---------------------------------|---------------------|
| 15. In/out characteristic: | Log conformal | |
| 16. In/out voltage slope: | 2dB/V | 0.5 to 4dB/V (*) |
| 17. Post-detection time constant: | 100ms | 10ms to 10s (*) |
| 18. DC voltage adjust: | To 0V for -70dBm to -110dBm | |
| 19. Level meter adjust | To ±199.9 for -70dBm to -110dBm | |
| 20. Step size: | 10kHz | |
| 21. Automatic search: | ±200kHz | ±75kHz to ±1MHz (*) |

TRACKING PARAMETERS

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| 22. PLL noise bandwidth: | 300Hz or 2kHz (check model table) |
| 23. Threshold for reacquisition of lock: | <35dBHz or 43dBHz (check model table) |
| 24. Average search time: | <1s for PLL B/W of 2kHz
<90s for PLL B/W of 300Hz |

MISCELLANEOUS

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|-------------------------------|--|
| 25. Power supply: | 115V/230V ±10%
50/60Hz ±10%, 30VA |
| 26. Mechanical: | 1U 19" frame, 400mm |
| 27. Temperature: | Operating: 0° to 50°C
Storage: -40° to 85°C |
| 28. Relative humidity: | Operating: 0 to 90%
Storage: 0 to 95% |
| 29. Summary alarm: | NO and NC dry relay contacts via rear mounted connector |
| 30. Summary alarm indication: | Through front panel LED and remote interface |
| 31. Remote control: | Via RS232/RS485 serial interface
Control: beacon frequency and polarisation input
Monitor: beacon frequency, output voltage alarm status |

(*) These parameters are not field adjustable. To be specified at time of order.

MODEL TABLE

Input band	PLL 300Hz, threshold <35dBHz ⁽¹⁾	PLL 2kHz, threshold <43dBHz ⁽²⁾
3.4 - 4.2GHz 10.7 - 12.75GHz	B790P	B795P
3.4 - 4.2GHz 7.25 - 7.75GHz 10.7 - 12.75GHz	B7901P	B796P This model is compatible with NATO, Skynet and DSCS X-band satellite BPSK beacons

⁽¹⁾ Models recommended for antenna and propagation experiments.

⁽²⁾ Models recommended for antenna tracking.