

Model ASC300L-D (930 MHz to 2200 MHz) Beacon Receiver

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Functional Description

The Model ASC300L-D Beacon Receiver is a high performance unit that is designed to real time track the power density of a satellite beacon and output a DC voltage that is linearly proportional to the beacon power by utilizing a true, RMS-responding power detector. The applications for the ASC300L-D are for antenna step track controlling and uplink power control system.

Systems Specifications

Input Frequency..... 930 MHz to 2200 MHz
 Warm up from cold start Within 1 db in < 2 minutes
 Temperature Stability ± 1.5 dB, 0 to 50 deg C
 Signal Strength Detection Bandwidth 60 kHz
 Input Level -90 dBm, min.; -30 dBm max.
 For full tracking range capability
 Frequency Tuning..... 10 kHz Steps
 Frequency Adjust..... Front Panel or Remotely
 Threshold. Alarm..... adjustable on 0.1V (0.2 dB) Steps from front panel
 Input Impedance..... 50 Ohm
 Input Connector..... Type-N, Female std
 Type-F Female or SMA Female (**Optional**)
 Output Impedance 100 Ohm, single ended
 Output Connector Terminal plug and BNC Female
 Tracking Gradient..... 0.5 V/dB, Std
 Tracking Response..... 0 to +10 VDC
 for a 20 dB input level change
 System Level Adjust..... 0 to 60dB, 0.5dB Steps
 Frequency Stability <1 ppm, 0^oc to +50^o c
 Phase Noise >75 dB-Hz, 1 kHz from Carrier

Alarm Relay..... Form-C
 External LNB Power... +18 VDC, switchable In-Out, .500ma,max.
 CDS (**Optional**)..... DB-9, RS-232
 (optional) See Below *
 Front Panel Display..... Vacuum Fluorescent
 M&C RS-232 or RS-422/485 Switchable on rear panel
 M&C Connector..... DB-9, Female
 Ethernet 10/100 Base T (**Optional**)..... RJ-45 Jack connector
Physical Characteristics
 Size 1.75"H X 16.00"D X 19.00"W
 Weight..... 8 lb. (3.63 kg)
 Primary Power..... 100 - 260 VAC 47 - 63Hz, 1.2 A
 AutoSensing

Environmental Specifications:

Operating Temperature..... 0^oc to +50^o c
 Storage Temperature..... -40^oc to +70^o c
 Humidity 95% RH@ 40^o c

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* CDS Continuous Digital Streaming (Optional)

The streaming option associated with the ASC300 series of beacon tracking receivers provides a continuous, data stream running at 9600 baud that contains signal strength level indication in millivolts as well as lock or alarm condition of the unit. Other baud rates are available. A female DB9, RS-232, interface connector on the rear of the unit is specifically dedicated for this option.