

## 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  
 Signal Strength Detection Bandwidth (**Note1**) .....30 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..... 75 Ohm  
 Input Connector.....Type-F, Female std  
 .....Type-N 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<sup>o</sup>c to +50<sup>o</sup> c  
 Phase Noise..... >75 dB-Hz, 1 kHz from Carrier

Alarm Relay..... Form-C  
 External LNB Power... +18 VDC, switchable In-Out, .500ma,max.  
 ..... +15 and +24 VDC (**Optional**)  
 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..... 90 - 264 VAC 47 - 63Hz, 1.4 A  
 ..... AutoSensing

#### Environmental Specifications:

Operating Temperature.....0<sup>o</sup>c to +50<sup>o</sup> c  
 Storage Temperature..... -40<sup>o</sup>c to +70<sup>o</sup> c  
 Humidity .....95% RH@ 40<sup>o</sup> c

**Note: (1) Requires 60 KHz Optional**

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#### **\* CDS Continuous Digital Streaming (Optional)**

The streaming option associated with the ASC300 series of beacon tracking receivers provides a continuous, two byte, data stream running at 9600 baud that contains twelve bits of signal strength level indication 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.