

Model ASC 300C Beacon Receiver

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Functional Description

The Model **ASC300C 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 **ASC300C** are for antenna tracking controllers and uplink power control system. Note: The model ASC300C can be offered with external BDC instead of an internal BDC.

Systems Specifications:

Input Frequency 3.4 to 4.2 GHz
 **Internal Block Converter**
 Pre-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
 AFC ± 30 kHz
 Threshold <45 dB-Hz (C/N₀) for acquisition
 Input Impedance 50 Ohm
 Input Connector Type-N, Female
 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 60 dB, 0.5 dB Steps
 Frequency Stability <1 ppm, 0^o c to +50^o c
 Frequency Reference 10 MHz (Internal)
 Phase Noise >75 dB-Hz, 1 kHz from Carrier

Alarms Unit Lock
 Alarm Relay Form-C
 External Power None (Internal BDC)
 CDS (**Optional**) RS-232/422
 DB9 Female connector on rear panel
 Front Panel Display Vacuum Fluorescent
 M&C RS-232 or RS-422/485 Switchable
 M&C Connector DB-9, Female on rear panel
 Ethernet 10/100 Base T (**Optional**)
 Ethernet connector RJ-45

Physical Characteristics:

Size 1.75"H X 16.00"D X 19.00"W
 Weight 9 lb. (4.08 kg)
 Primary Power 90 - 264 VAC 47 - 63Hz
 Auto-Sensing

Environmental Specifications:

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

Ethernet Option: Not installed on STD units. Must be installed at factory.
 Software support: Windows 98/2000/XP/2003/2007/Vista/7 32bit & 64bit
 Protocol: TCP/IP, UDP, HTTP, SNMP, ARP, Telnet, ICMP, BOOTP, DHCP, SMTP

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*** CDS Continuous Digital Streaming Option:**

The streaming option associated with the ASC300 series of beacon receivers provides a continuous, two byte, data stream running at 9600 baud that contains ten bits of signal strength level indication as well as lock or alarm condition of the unit. A female DB9, interface connector on the rear of the unit is specifically dedicated for this option.