



## BBG-ACP/ARP

## Radar Azimuth Converter

### Description



The BBG-ACP/ARP is a stand alone product which interfaces between analog and digital radars. The BBG-ACP/ARP accepts the analog Synchro or Resolver data from a radar system and converts to digital Azimuth Reference Pulses (ARP) and the Azimuth Change Pulses (ACP). These signals, combined with the radar video signal, enable display of the radar situation picture on many commercial and military radar consoles.

The BBG-ACP/ARP is a "SMART" interface due to the onboard processor which initializes the system, receives the analog data, processes into digital data and outputs to the digital system.

### Applications

- Radar Systems (antenna azimuth)
- Navigation Systems (gyrocompass, speedlog, course, pitch, and roll)
- Industrial Processes (position, velocity)
- Meteorology Instruments (wind speed and direction)
- Many Others

### Features

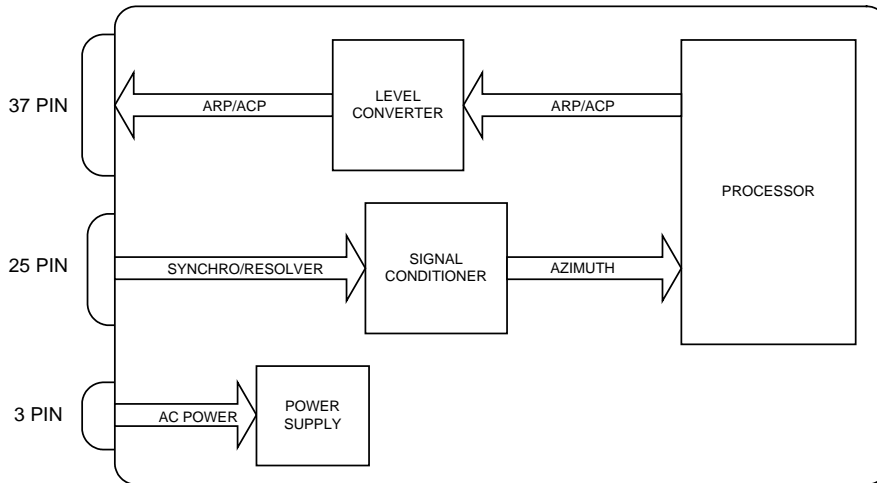
- Bulkhead Mount Metal Enclosure
- Synchro or Resolver Input
- 90V, 11.8V Synchro, 6.8V Resolver
- LED Status indicators
- TTL, RS-422, Open Collector and Open Emitter Outputs

### BBG Incorporated

1708 South Park Court • Chesapeake, VA 23320

Phone: (757) 366-9211 • Fax: (757) 366-9170 • E-mail: sales@bbginc.com • Website: www.bbginc.com

Chart



During power up or reset, an onboard microcontroller configures the interfaces and provides all signals and control necessary to read the desired interface, process the data, and output the converted signals.

Technical Specifications

Parameter	Value	Units
Power Supply	115	Volts AC
	1	Amp
Temperature Range		
	Operating	0 to +50
Storage	-65 to +150	C°
Input/Output		
Synchro	90 and 11.8	Volts
	0-2000	Hertz
Resolver	6.8	Volts
	0-2000	Hertz
Accuracy	+/-4	arc minutes
ACP/ARP	0/+5, 0/+9, 0/-9	Volts DC
Dimensions	8.0 x 6.0 x 1.4	In
	20.32 x 15.24 x 3.56	Cm

