



FEATURES

- Three independent, selectable IF filters for each channel
- Fully scalable AGC outputs
- AM outputs
- Fixed AGC time constant (selectable AGC time constant optional)
- Bar graph signal strength indication

BENEFITS

- Basic dual channel AM and AGC tracking receiver in a 1U rack height chassis

DESCRIPTION

The ATU-2000 is a Single/Dual Channel Antenna Tracking Unit. It is designed for use with single or dual axis mono-pulse AM tracking systems. The unit is equipped with one or two independent channel receivers. Each channel processes a 70 MHz signal from the system down converter and provides the user with an AM tracking output and linear AGC for tracking signal strength and polarization switch over.

A single channel version of the ATU-2000 is also available.



communications

Specifications

IF input frequency:.....70 MHz
IF input impedance:.....50 Ohms, VSWR 1.5:1 nominal 2.0:1 maximum, BNC
IF input level:..... -75 to -10 dBm, +10 dBm without damage
IF Bandwidth:.....Three Front Panel selectable: 250 kHz, 3 MHz, 10 MHz (standard)
 (Consult factory for additional bandwidths)

AM output:.....2.0 V P-P for 50% AM (internal, adjustable)
AM output source impedance:.....75 Ohms, (50 Ohms optional), BNC
AM frequency response:.....10 Hz to 50 kHz (standard)
AGC linearity:..... ± 3 dB over any 30 dB range
AGC output:.....0 to -5.0 VDC (scalable to 0 to -10 VDC)
 (polarity reversible 1 to +10 VDC)

AGC time constant:.....Factory set at 300 ms (optionally selectable)
AGC output impedance:.....1 K Ohms max, BNC
AGC polarity adjustment:.....AGC output polarity reversible via front panel
AGC zero adjustment:.....Front panel adjustment allows AGC output to be
 zeroed with ± 2 VDC range
AGC scale adjustment:.....Front panel adjustment allows AGC output to be scaled
 from 0 to 5 V up to 0 to 10 V over the RF dynamic range
Front panel displays:.....Alphanumeric LED displays used for both
 control and signal strength indication

Power indicator:.....LED indicator at center of front panel
Power switch:.....On/Off switch located on rear panel
Size:.....1.75" H x 19" W x 15" D
Power:.....120/240 V AC, 50-60 Hz, 35 Watts
Weight:.....11 lbs.
Temperature:
 Operating:.....0 to 50°C
 Non-operating:.....-20 to +70°C



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