

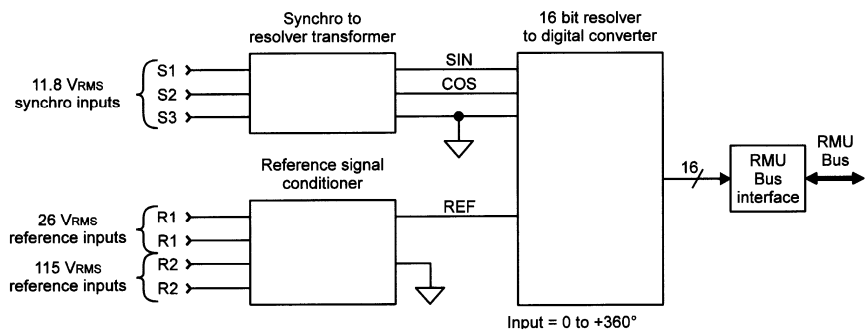
Airborne Telemetry

MSC1000-005 Synchro to Digital Converter Module (2 Channel)

Airborne Data Acquisition Products

FEATURES

- Each channel is independently programmable via DASM software
- Used with altitude gyros, altitude position
- Transducers, and servo position transducers.
- Accepts inputs from 2 independent synchros
- Input reference signal at 26 VRMS or 115 VRMS
- Static accuracy of 12 Arc-minutes
- Tracking error of less than 50 Arc-minutes per second
- 16-bit resolution



DESCRIPTION

The MSC1000-005 is a fully programmable Synchro to Digital Converter. It is used to interface to synchro angular positional transducers and servo position transducers. It incorporates an electronic "transformer" to couple to the synchro.



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ELECTRICAL SPECIFICATIONS

Input Characteristics (Per Channel)

- Input line-to-line signal: 100 Kohms minimum
- Input line-to-line signal: 11.8 VRMS \pm 20% from 360 to 440 Hz.
- Reference input line-to-line impedance: 250 Kohms minimum
- Reference input signal has 2 ranges, both of which are defined from 360 Hz to 440 Hz. Low range is defined as 26 VRMS \pm 20%, and high range is defined as 115 VRMS \pm 20%.

Output (Per Channel)

- 16 parallel data bits.

Miscellaneous

- Static accuracy is 12 arc-minutes maximum over the specified ranges of input voltage, frequency, and temperature. Slew rate will be 150 degrees per second minimum. Tracking error (at a slew rate of 150 degrees per second) will not exceed 50 arc-minutes per second over the ranges of input voltage, frequency, and temperature.
- Channel noise will not exceed \pm 2 digital counts

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