



AL511
UNIVERSAL INDICATOR DISPLAY



FEATURES

- 240 x 160 Pixel Resolution
- Analog Voltage Input
- Reprogrammable to support multiple missions
- Multiple Setup Configurations
- Sunlight Readable
- Low power consumption

OVERVIEW

The AL511 Universal Indicator provides the user with a multi-instrument display combining a bright, high contrast TFT LCD touch screen display with a programmable data processing unit. The AL511 allows the user to program four display pages (in a laboratory environment before actual flight) for instrument type, measurement ranges, and descriptors.

The AL511 is packaged in wedge shaped configuration which includes tapped mounting holes along the bottom edge for attachment purposes. Users select 1 of the 4 configured display pages and at any time can elect to change to any of the other displays in memory. The displays can be independently driven by any of the four analog (0-5V) inputs. The data is displayed as either a 'sweep' or a single pointer along with a digital readout. The AL511 also provides Max and Max/Min hold functions and programmable arch band colors (green, yellow, or red for example). After one series of flight tests are completed, the display can be reprogrammed to support the next set of tests. This eliminates the need to buy unique, specialized displays on a per mission basis.

SPECIFICATIONS

MECHANICAL

- Wedge Shaped design Customized
- Maximum depth of 3" behind panel
- 4each 6-32 screws, 2 on each side for hard mounting
- Front bezel maximum of 0.5" depth, 3.5" across
- Weighs less than 5 pounds

ENVIRONMENTAL

- Temperature: -30°C to 70°C operating
- Humidity: 95% non-condensing
- Altitude: 0 to 70,000 feet
- Orientation: Unit is capable of operating when mounted in any orientation

ELECTRICAL

- Input Power: +18VDC to 36VDC, 300mA
- Power Consumption: 12 watts maximum
- Power Interruption: Resumes operation within 15 seconds of reapplication of power
- Connector: GLENAIR M83513/13-F01NP

DISPLAY CHARACTERISTICS

- Input: Analog DC Voltage 0 to +5VDC
- Discrete Control: At least four setup configurations (pages) via hand selection on front panel
- Update Rate: ≥ 30 frames per second
- Sunlight Readable
- Resolution: 240 x 160 pixels
- Number of Colors: 8 colors per display page