

# Aplab

## STAND-ALONE LOGIC ANALYZER LA36100



**Aplab Logic Analyzer LA36100**, a new-type data measuring instrument is manufactured to survey and measure the digital signals in digital information processing system. Some special problems of designing and debugging in digital system are difficult to be measured and solved without the logic analyzer, such as transmission delay, burring interference. In order to analyze and validate the result of information analysis, the logic analyzer must be used to lookup the error in programming and running and measure and compare the state of digital logic circuit.

### Features

- 32 General Input Channels in 4 groups with 8 channels for each group.
- 4 Groups can be combined in three different Logical ways.
- Current Limit Protection and over voltage protection function.
- Name can be defined for each Channel.
- Programmable Threshold Voltage for each Channel.
- Internal / External Clock Selection to sample Data.
- Convenient Data Searching function.
- Zoom in and Zoom out facility.
- Cursor Feature.
- Simulation Feature.
- Keyboard operation and sequence adjusting with knob

## TECHNICAL SPECIFICATIONS

### INPUT

<b>Input Channel</b>	: 32 data-sampling channels, 1 external clock channel, 3 clock restriction channels.
<b>Threshold Level</b>	: 15 individually adjustable threshold levels with the adjusting range of -10V+10V and the resolution of 0.1V.
<b>Input Impedance</b>	: >100Ω.
<b>Input Protection</b>	: Has the function of over-voltage protection and can endure the voltage impact of ±100V.

### SAMPLING STORAGE

<b>Sampling Clock</b>	: Internal, external, rise-edge, fall-edge.
<b>Clock Restriction</b>	: Without restriction, 3-channel restriction with the setting of 0, 1, arbitrary for each channel.
<b>Sampling Cycle</b>	: 10ns - 10s (rate 0.1~100MSa/s).
<b>Resolution</b>	: 10ns.
<b>Sampling Signal Source</b>	: Internal, External.
<b>Storage Depth</b>	: 32k sampling points for each channel and 117 screens of the movable length.
<b>Storage Mode</b>	: Continuous storage, interval storage (clock restriction).
<b>Storage Start-up</b>	: Manual, Conditional.
<b>Start-up Condition</b>	: 8 channels with 0, 1 or arbitrary for each channel.

### TRIGGERING

<b>Triggering Condition</b>	: 4 groups and 8 channels for each group with 0, 1 or arbitrary for each channel.
<b>Condition Combination</b>	: Each group can be independent, or logical combination of AND, OR, or unconditioned for the four groups.
<b>Effective Triggering Time</b>	: 1 - 255 times.
<b>Delay Length after Triggering</b>	: 1 - 32767 sampling cycles.

### DISPLAY

<b>Screen</b>	: 5.73 LCD, TFT.
<b>Resolution</b>	: 320 x 240 points.

### Display Format

: 8 channels of timing waveforms, 16 channels of timing waveforms, 32 channels of state data.

### Graph Zoom

: Horizontal zoom co-efficient : 1 - 255 times.

### Horizontal Moving

: Horizontal rate : 1-999 points/step and 117 screens of the movable Length.

### CURSOR

#### Benchmark Cursor

: Any point in timing waveform can be defined as the benchmark cursor and the data can be displayed.

#### Measuring Cursor

: The cursor position is movable, and the data as well as the time difference of the benchmark cursor can be displayed dynamically.

#### Triggering Cursor

: Sampling points according with the triggering condition in timing waveform or state data.

### SIMULATION

#### Internal Signal Waveform

: Four types of waveforms : counter, sequencer, pulse switch, cumulator.

#### Internal Signal Cycle

: 20ns - 10s.

#### Resolution

: 10ns.

### OPERATION

: Keyboard operation and sequence adjusting with knob.

### GENERAL

#### Power Supply

Voltage : AC 220V ±10%.

Frequency : 50Hz ±5%.

Power Consumption : <30VA.

Temperature : 0 - 40°C.

Humidity : 80%

Dimensions : 329 mm x 283 mm x 155 mm.

Weight : 3 Kg.

### ACCESSORIES

: Power Cord - 1 No.  
Flat Cable Wire - 2 Nos.  
Conversion Junction Box - 5 Nos.  
Testing Clamp - 40 Nos.  
Instruction Manual - 1 No.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

**Aplab** Test & Measurement Instruments

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