Model 940A
Timing System Analyzer

- IRIG-B
- Dual Inputs
- Adjustable Source
- Graphical Touch Screen
- Verify and Compare Signals
- Intuitive
- Affordable

Features

An 800 x 480 color TFT capacitive touchscreen produces easy to read displays and provides a convenient user interface. The industrialized display glass protects the Timing System Analyzer from the rigors of substation use. The automatic backlight feature extends battery life and keeps the display easy to read. Internal lithium-ion batteries typically provide more than a day's use under normal conditions and charges overnight via a standard USB port. The built in LED flashlight provides illumination in hard to see areas and a convenient bail assembly allows for hands free operation.

Accessories

The Model 940A comes with the necessary accessories to get you started making timing measurements. Included is a carrying case with extra space to store accessories needed to test your timing system. A USB wall charger and charging cable are provided along with an eight foot BNC (M-M) cable in addition to assorted adapters to make standard connections.

Specifications subject to change without notice.
# Model 940A Specifications

## Inputs

### Measurements
- **Connectors**: Two, BNC
- **Signals**: IRIG-B (modulated, unmodulated, modified manchester), DCF77, 1 PPS
- **Levels**: 25 Vpk maximum
- **Impedance**: Selectable: high impedance, 50 ohms or 100 ohms

## Output

### Source
- **Connector**: One, BNC
- **Signals**: IRIG-B (modulated, unmodulated), DCF77, 1 PPS
- **Levels**: 1-15 Vdc, 1-10 Vpk
- **Drive**: 125 mA @ 5 V
- **Time Ref.**: Input 1, Input 2, Real Time Clock or User

## System

### Interface
- **Display**: 800 x 480 color TFT capacitive touchscreen, backlit
  - Single or Dual Timing Signals
  - Data and/or Waveform

### Real Time Clock
- **Reference**: Input 1, Input 2 or User

### Features
- **Flashlight**: Built in LED
- **Audio**: Indicator tone (enable/disable)

## Power Requirements

### Internal Battery
- **Type**: Li-ion (9000 mAh capacity)
- **Operation**: 24 hours typical
- **Charge**: 8-12 hours with unit off

### External Power
- **Voltage**: +5 Vdc
- **Current**: 1 A
- **Connector**: USB micro-B

## General

### Physical
- **Size**: 205 mm x 167 mm x 49 mm (8.1 in x 6.6 in x 1.9 in)
- **Weight**: 0.6 kg (1.4 lbs), maximum
- **Charging**: 381 mm x 305 mm x 229 mm, shipping (15 in x 12 in x 9 in)
- **Humidity**: Noncondensing

## Environmental
- **Temperature**: Operating: -10 °C to + 50 °C
- **Charging**: 0 °C to + 45 °C
- **Nonoperating**: -40 °C to + 75 °C

## Accessories

### Included
- **Description** | **Order No.**
  - Soft Carrying Case | HD0086000
  - Micro USB Cable, 6 ft | CA0033700
  - External power supply, + 5 Vdc | AP0015300
  - BNC (Female) Breakout to Screw Terminal | AP0014900
  - BNC (Female) Breakout to 2 Wires | AP0008900
  - BNC T-Connector (F-M-F) | CN0003500
  - BNC Patch Cable (8 ft) | CA0033808
  - Pluggable Terminal Block (2 pos) | CN0019202

### Available
- **Description** | **Order No.**
  - BNC (Male) Breakout to 2 Wires | AP0003400
  - BNC Barrel Connector (F-F) | CN0003400
  - BNC (Male) Breakout to Screw Terminal | AP0015000
  - Operation Manual | AS0106800