
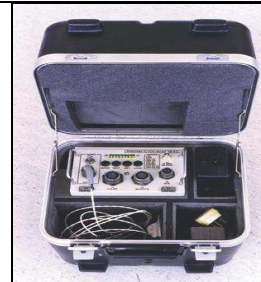


## Portable GPS-Discipline Rubidium Clock FOR Time Dissemination

### AR50A

#### Key Features

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• <b>GPS-Discipline Rubidium Clock</b></li><li>• <b>One Hour Internal Battery Backup</b></li><li>• <b>Power Supply for 110/220 VAC</b></li><li>• <b>DC/DC Converter for Car Battery (12/24) VDC</b></li><li>• <b>Set of Cables for Time &amp; Frequency Dissemination</b></li></ul> |  |
|---|---|



#### Description

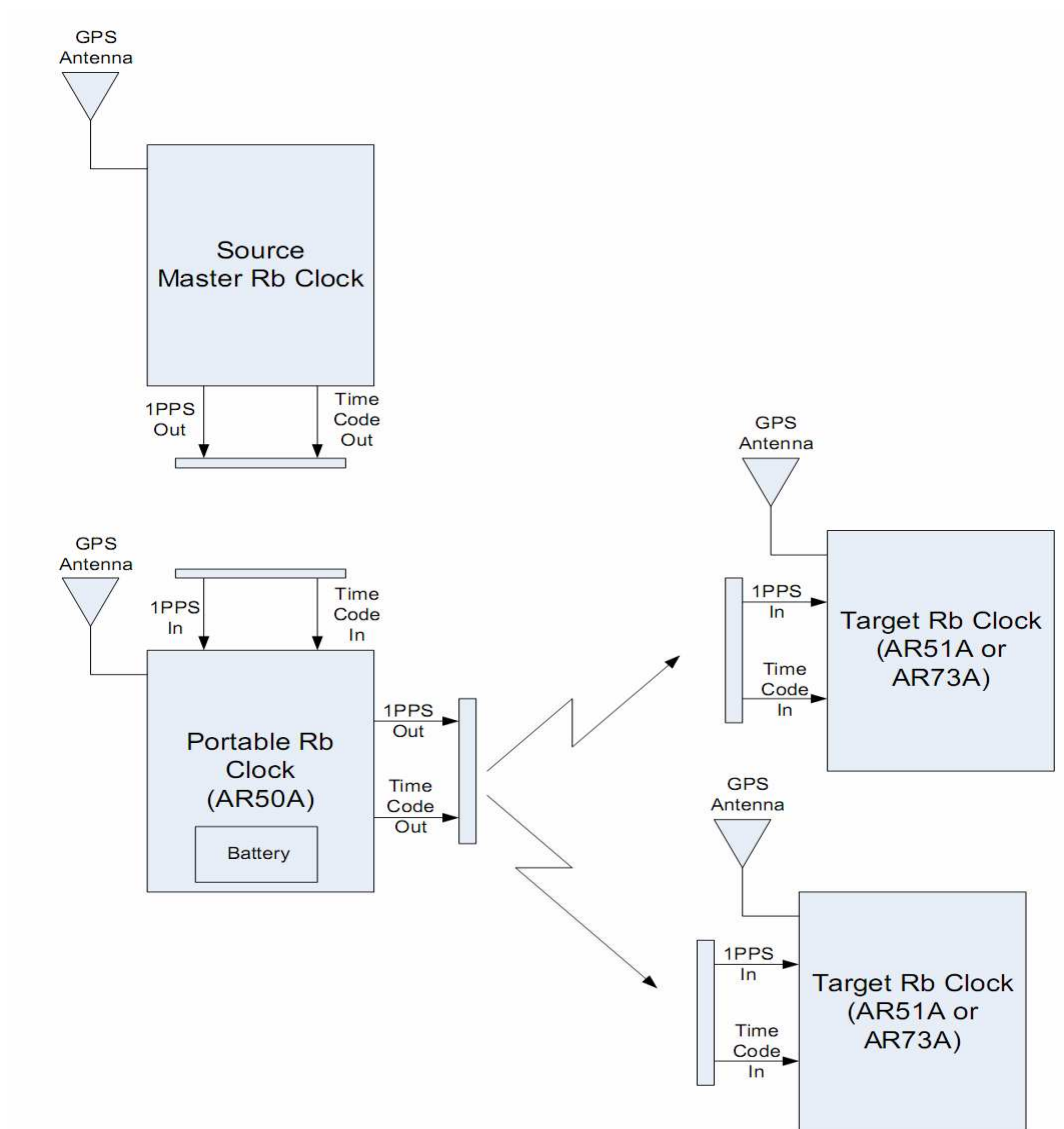
**The AR50A** is a portable case for **AR51A-06 or AR51A-08 Rubidium Atomic Clock**, which is designated to disseminate accurate frequency and time code for Atomic Clocks in the field, for situation of GPS signal absence. The Rubidium Clock is connected to master accurate clock and has internal backup battery, In case of a need for accurate clock at the field, when no GPS reception available, The AR50A is detach from the master clock and transport via vehicle connected to its battery. At the destination, The AR50A is detached from the vehicle to maintain the disseminate of it's accurate clock to other clocks at the field.

The AR50A is based on a portable encasement.

Special Note: AccuBeat specializes in customized solutions based on the customer's distinctive requirements.

#### Applications

- Time and Frequency dissemination
- Communication, wire line and wireless
- Field Calibration
- Telemetry, Test fields



## Typical application

The purpose of this application is to disseminate accurate time & frequency from Rubidium source clock to destination clock in a situation of GPS signal absence or when there is GPS jamming.



Specifications	
<b>General Description</b>	AR50A is a portable case using version of AR51A clocks. AR50A includes the model AR51A-06 or AR51A-08 packaged in a portable ruggedized suitcase. The AR50A is used to disseminate accurate time and frequency to field units. It could be transported to remote locations with no power interruptions using either external power supplies or internal rechargeable battery (see below)
<b>Performance and Operation</b>	Same as AR51A-06 or AR51A-08 - see the attached AR51A-08 data sheet
<b>Power Supply</b>	AR50A can work either on: <ul style="list-style-type: none"> <li>▪ 230VAC / 110VAC</li> <li>▪ 12VDC (car battery)</li> <li>▪ 28VDC (same as AR51A)</li> </ul> Rechargeable Battery (1 hour) is included in the AR51A as a standard.
<b>Dimensions</b>	330 (width) x 370 (height) x 320 (depth) mm <sup>3</sup>
<b>GPS Antenna</b>	GPS antenna and cable are included.
<b>Weight</b>	<8 Kg
<b>Environmental</b>	AR51A with the same parameters + transit drop test for closed unit

## HOW TO ORDER

SYSTEM	AccuBeat P/N
Description	
AR50A Calibrating Set	AR50000

Includes	AccuBeat P/N:
AR51A-08	AR51008
AC/DC 100-240 VAC P.S Desktop O/P 24VDC 4.2A	EM30038
DC/DC Converter to 12/24 VDC	EU50020
Calibration Cables ASSY	AA50126

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**Layout - AR50A**

