

Smallest Portable Atomic Clock



Actual size

This portable Atomic Clock will run from AC or DC supply.

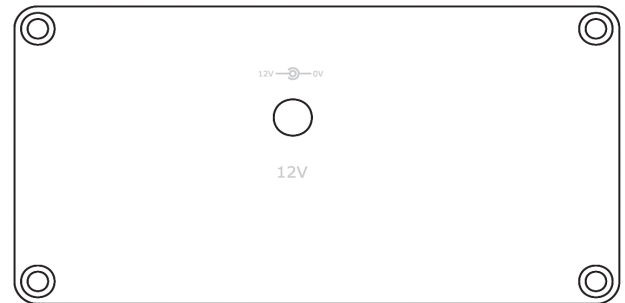
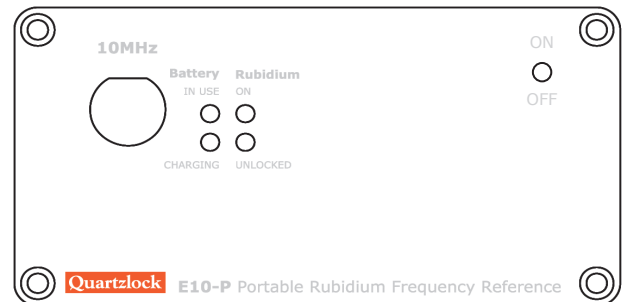
For remote site operation i.e. cellular BTS the E10-P may run from the cigarette lighter socket to arrive fully charged and warm.

The E10-P Atomic Clock benefits from Quartzlock's SMAC technology and state-of-the-art internal high capacity batteries with full safety features.

- Ultra low noise options
- Low cost line supply versions
- Ultra low noise 6-output option
- Ultra low cost line supply 6-output version

Lowest Cost Sub-Miniature Atomic Clock

Specifications	
Output	10MHz Sine, 10dBm, ± 3 dBm
Harmonics	<-40dBc
Accuracy	$\pm 5E^{-11}$ at shipment @25°C
Short Term Stability (AVAR)	5E ⁻¹¹ /1s 1.6E ⁻¹¹ /10s 5E ⁻¹² /100s
Drift	5E ⁻¹² /day 5E ⁻¹¹ /month
Phase to Noise (SSB)	
1Hz	-100dBc
10Hz	-130dBc
100Hz	-140dBc
1kHz	-140dBc
Input Power	6W at 12V @ 25°C, Max 1.2A
Input Voltage Range	90...245V ac or +12V dc
Run Time – Battery	2 hours
Charge Time – Battery	4 hours
Warm Up	5 minutes to lock @ 25°C
Retrace	$\leq \pm 2E^{-11}$
Magnetic field sensitivity, dc (± 2 GAUSS)	< $\pm 4E^{-11}$ /GAUSS
Frequency Control	>5E ⁻⁹ (External trim range option: 0V~5V)
External Trim Range	$\geq 5E^{-9}$ (0V~5V) option
Size	103 x 55 x 122 mm
Weight	500gm approx
Warranty	24/36 months
Environmental Specifications	
Operating Temp Range	-20°C~+50°C Typical: -30~+65°C
Temperature Coefficient (ambient)	2E ⁻¹⁰ (0~50°C)
Storage Temperature	-55°C~+85°C
MTBF	100,000 hours
Environmental health	RoHS
EMI	Compliant to FCC Part 15 Class B



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