

Electronic clock

GMT 4200

General

Selected as basic equipment for the AIRBUS A320, A321, A330 and A340, this compact and versatile electronic clock uses a self contained time base, microprocessor, time and date encoding circuit, LCD multifunction displays and sweep hand analog chronometer for improved ergonomics.

This clock is equally suitable for all transport aircraft and offers :

- excellent readability with high contrast LCD displays (white on black : dichroic dual cell),
- low power consumption,
- reduced weight,
- internal battery to retain time keeping in the event of loss of 28V aircraft supply,
- direct drive stepper motor for CHR sweep hand (no gears),
- independant displays for each function (GMT, ET, CHR),
- flexibility for additional specific functions.



Technical features

Installation :

- Dimensions :
 - case : square flange 3x3 ATI ARINC 408.
 - length : 5.118 inch (130mm) without connector.
- Weight : 2.3 lbs.
- Mounting : from the front of the instrument panel (MARMAN clamp).

Power supplies :

- Aircraft power : two power lines 28 VDC feed the clock : one from the aircraft battery for the time base and internal battery, consumption 0.02A ; the other from the aircraft power for the displays and output, consumption 0.06A.
- Internal lighting : voltage 5V AC 400Hz, consumption 0,95A.

Performances :

- Range :
 - GMT : 23h59min.
 - DATE : from 01 01 1987 to 31 12 2025
 - ET : 99h59min.
 - CHRONO : 99min59sec.
- Time base accuracy : one second per 120 hours at +25°C ; two seconds per day between -15°C and +55°C.
- Time to reset : 0.05 second for ET, 1 second max for CHR sweep hand.
- Environmental conditions : D0160B cat A2A.
- Extension capabilities :synchronization from ACARS or GPS with ARINC429 input.