

# MASTER CLOCKS

MC4181-388 SERIES

## TIME ZONE MASTER CLOCK



***Ideal for Boardrooms,  
Hotels, Trading Rooms,  
and Multi-National  
Companies ....***

Controls all ATS AE Series World Time Zone Clocks

Programmable Offsets from GMT, Including 1/2 Hour Offsets

Programmable Seasonal Time Changes for up to 15 Different World Time Zones. . . Including Leap Year Correction

Non-Volatile Memory - Keeps time and program for indefinite power outages. No Batteries required.

Rack Mount, 12 VAC, 60 HZ Powered, Optional 50 HZ.

MC4181N-388 Wall Mount, 120 VAC Version - Also Available

***Optional GPS Interface -  
Automatically tracks the Atomic Clock***



**APPLIED  
TECHNICAL  
SYSTEMS**

**800-444-7161**

BOX 5705 • SHREVEPORT, LOUISIANA. 71135

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[www.ats-usa.com](http://www.ats-usa.com)

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# MC4181-388 SERIES WORLD TIME ZONE MASTER CLOCKS

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## DESCRIPTION

The MC4181-388 Series World Time Zone Master Clocks are available in Rack Mounted and Wall Mounted versions. Both have the same powerful operating program. They are used as a master control for ATS World Time Zone Clocks to provide a complete stand-alone system for up to 15 World Time Zones.

GMT (Greenwich Mean Time) is used as the reference time. GMT time, GMT date, GMT day of the week, time zone offsets (including 1/2 hour offsets), and any seasonal adjustments are easily programmed for up to 15 different world time zones, using the built-in keyboard and alpha-numeric display. Auto-Prompt, cursor guided programming makes set up quick and easy.

Time and Zone information are transmitted once each minute over simple 2-conductor cable to the remote ATS World Time Zone Clocks. Up to 15 zones are provided. Multiple clock displays can be connected to display the same 15 zones in other locations up to 2000 feet away.

In addition to the ATS World Time Zone Clocks, the ATS AE Series Large Digital clocks with the RS232 input option can also be connected to this system. CC2000 Series Digital Clocks can be used to display zone 15 data only.

## SPECIFICATIONS

<b>GENERAL</b>	Program	Uses GMT time and date as a reference. Up to 15 programmable Zones. Offsets from GMT (including 1/2 hour offsets) and any seasonal adjustments are programmed by the built-in keyboard and alphanumeric display.
	Accuracy	Synchronous with the AC power line. .005% crystal during power outages. With the optional GPS Antenna/Receiver, time and date track the Atomic Clock.
	Memory	Non-Volatile memory keeps time and program indefinitely during power outages.

**MC4181-388** Enclosure - Anodized Aluminum, Rack Mount Enclosure - 19" W x 3.5" H x 9" D.  
Fits a standard 19 inch equipment rack.

Power - 12 VAC, 60 Hz, 1 Amp Maximum. A power module (120/12 VAC) is included.

Wiring - Terminal blocks are provided on the back panel for all field wiring. A DB9 connector is provided for direct connection to World Time Zone Clocks with the mating DB9 connector.

**MC4181N-388** Enclosure - Painted Steel, Wall Mount Enclosure - 12" W x 16" H x 4.5" D.  
Conduit knock-outs are provided on all side, top, bottom, and back panels

Power - 120VAC, 60 Hz, 5 VA Maximum.

Wiring - Clearly labeled terminal blocks are provided on the inside panel for field wiring.

## OPTIONS

**GPS-427A** Add the GPS-427A Antenna/Receiver for tracking the Atomic Clock

**POWER** Optional 220 VAC, and 50 Hz versions are available by special order.



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