

# SMART CLOCK SERIES

THERE ARE EIGHT REGISTERS. THEY ARE TIME, MO./DAY, YEAR, 12/24HR. FORMAT, DAYLIGHT SAVING TIME, TIME ZONE LOCATION, BRIGHTNESS AND TIME CORRECTION. THE **(DISPLAY)** BUTTON WILL DISPLAY THESE REGISTERS. TO SET A REGISTER, YOU WILL USE THE **(SET 1)** AND **(SET 2)** BUTTON.

**NOTE: ALL REGISTERS HAVE BEEN PRESET, INCLUDING THE MASTER ZONE THAT IS RUNNING AT THE CORRECT TIME.**

STEP 1: PRESS THE **(DISPLAY)** BUTTON, TO SET THE MONTH AND DAY. THE **(SET 2)** BUTTON ADVANCES THE MONTH AND THE **(SET 1)** BUTTON ADVANCES THE DAY.

STEP 2: PRESS THE **(DISPLAY)** BUTTON, TO SET THE YEAR. THE **(SET 2)** BUTTON DECREASES THE YEAR AND THE **(SET 1)** BUTTON INCREASES THE YEAR.

STEP 3: PRESS THE **(DISPLAY)** BUTTON, TO SET THE 12 OR 24 HOUR FORMAT. THE **(SET 2)** BUTTON SETS 12 OR 24 HOUR.

STEP 4: PRESS THE **(DISPLAY)** BUTTON, TO SET DAYLIGHT SAVING TIME. THE **(SET 2)** BUTTON ADVANCES. 0 = NO DAYLIGHT SAVING TIME.  
1 = AUTOMATIC DAYLIGHT SAVING TIME. (USA)  
\* = OTHER COUNTRIES SEE CHART

STEP 5: PRESS THE **(DISPLAY)** BUTTON, TO SET THE ZONE. THE **(SET 2)** BUTTON ADVANCES THE ZONE. **SEE CHART FOR YOUR ZONES. NOTE: A 7 IS DISPLAYED ON THE FAR LEFT TO IDENTIFY THE ZONE REGISTER.**

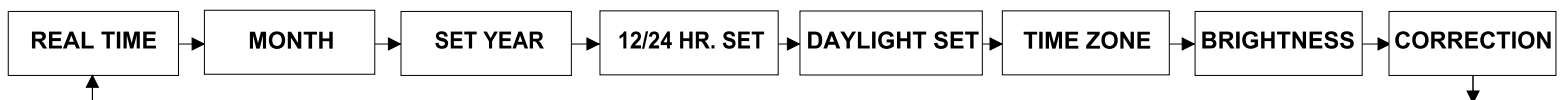
STEP 6: PRESS THE **(DISPLAY)** BUTTON, TO SET THE BRIGHTNESS. THE **(SET 2)** BUTTON DECREASES BRIGHTNESS AND THE **(SET 1)** BUTTON INCREASES BRIGHTNESS. **(OPTION)**  
NOTE: **A b IS DISPLAYED ON THE FAR LEFT TO IDENTIFY THIS REGISTER.**

STEP 7: PRESS THE **(DISPLAY)** BUTTON, TO SET THE TIME CORRECTION. THE **(SET 2)** BUTTON DECREASES THE CORRECTION AND THE **(SET 1)** BUTTON INCREASES THE CORRECTION. NOTE: **A c IS DISPLAYED ON THE FAR LEFT TO IDENTIFY THE REGISTER. THE NUMBER DISPLAYED IS IN SECONDS PER MONTH CORRECTION. A MINUS SIGN OVER THE c SUBTRACTS SECONDS PER MONTH.**

STEP 8: PRESS THE **(DISPLAY)** BUTTON, TO SET THE TIME. THE **(SET 2)** BUTTON ADVANCES THE HOUR AND THE **(SET 1)** BUTTON ADVANCES THE MINUTES.

**NOTE: WHEN ADVANCING THE MINUTES, THE SECONDS ARE ZEROED.**

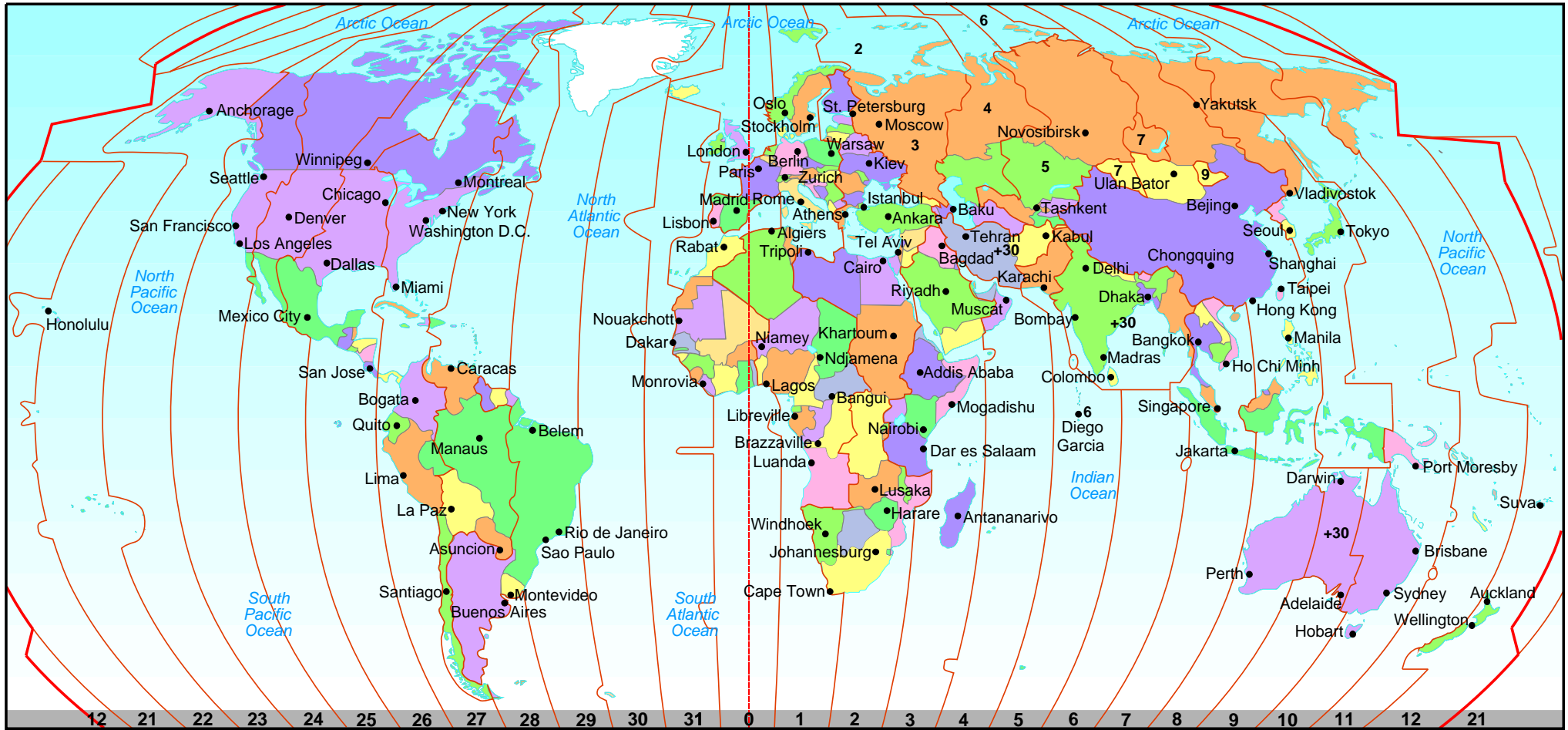
**TO SET THE TIME ONLY:** THE **(SET 2)** BUTTON ADVANCES THE HOUR AND THE **(SET 1)** BUTTON ADVANCES THE MINUTES.



## CORRECTION REGISTER DETAILED INSTRUCTIONS

THE CORRECTION REGISTER IS USED TO TRIM THE TIME KEEPING CRYSTAL, PLUS OR MINUS SECONDS OF A MONTH. TO AVOID CHASING THE CXR (CRYSTAL) THE MINIMUM CORRECTION INTERVAL SHOULD BE ONE MONTH, TWO MONTHS PREFERRED. WHEN IN THE CORRECTION REG. A SMALL C (c) OR A C- (c̄) IS DISPLAYED TO THE LEFT AND UP TO THREE DIGITS TO THE RIGHT. THE NUMBERS TO THE RIGHT REPRESENT SECONDS PER MONTH, THE (c) IS ADDING SECONDS AND THE (c̄) IS SUBTRACTING SECONDS. (MAXIMUM SETTING IS USUALLY 2 SEC + OR -)

# ZONE NUMBER MAP



# Daylight Saving Modes

Mode	Country	Start	Stop
0	none		
1	US, Canada, Bermuda	1 <sup>st</sup> Sunday in Apr.      0159 →0300	Last Sunday in Oct.      0159 →0100
2	Not Assigned	3 <sup>rd</sup> Sunday in Oct.      0159 →0300	2 <sup>nd</sup> Sunday in Feb.      0159 →0100
3	Argentina	3 <sup>rd</sup> Sunday in Oct.      0159 →0300	1 <sup>st</sup> Sunday in Mar.      0159 →0100
4	Not Assigned	3 <sup>rd</sup> Sunday in Oct.      0159 →0300	2 <sup>nd</sup> Sunday in Mar.      0159 →0100
5	Europe (OLD)	Last Sunday in Mar.      0159 →0300	3 <sup>rd</sup> Sunday in Oct.      0159 →0100
6	Not Assigned	Last Sunday in Mar.      0159 →0300	Last Sunday in Sep.      0159 →0100
7	Israel	4 <sup>th</sup> Sunday in Apr.      0159 →0300	1 <sup>st</sup> Sunday in Sep.      0159 →0100
8	Not Assigned	Last Sunday in Oct.      0159 →0300	3 <sup>rd</sup> Sunday in Mar.      0159 →0100
9	Forced 1 hr. advance		
10	Forced 1/2 hr. advance		
11	Not Assigned	2 <sup>nd</sup> Sunday in Oct      0159 →0300	3 <sup>rd</sup> Sunday in Mar.      0159 →0100
12	Newfoundland (1/2 hr. forced advance plus DST)	1 <sup>st</sup> Sunday in Apr.      0159 →0300	Last Sunday in Oct.      0159 →0100
13	Australia	Last Sunday in Oct.      0159 →0300	Last Sunday in Mar.      0259 →0200
14	*Paraguay	Apr. 1      0059 →0000	Oct. 1 0159 →0100
15	New Zealand	1 <sup>st</sup> Sunday in Oct.      0159 →0300	1 <sup>st</sup> Sunday in Mar. on or after 15 <sup>th</sup> 0259 →0200
16	Greece	Last Sunday in Mar.      0259 →0400	Last Sunday in Oct.      0359 →0300
17	Iraq	Last Sunday in Mar.      0059 →0000	Last Sunday in Sep.      0159 →0100
18	*Lebanon	May 1      0059 →0000	Oct. 16      0159 →0100
19	Egypt	May 1      0159 →0300	Oct. 1 0259 →0200
20	UK, Ireland, Scotland + Europe	Last Sunday in Mar.      0059 →0000	Last Sunday in Oct.      0159 →0100
21	*Cuba	1 <sup>st</sup> Sunday in Mar. on or after 14 <sup>th</sup> 0059 →0000	1 <sup>st</sup> Sunday in Oct. on or after 8 <sup>th</sup> 0159 →0100
22	Brazil	1 <sup>st</sup> Sunday in Oct.      0159 →0300	1 <sup>st</sup> Sunday in Feb. on or after 11 <sup>th</sup> 0259 →0200
23	Chile	1 <sup>st</sup> Sunday in Oct on or after 9 <sup>th</sup>	1 <sup>st</sup> Sunday in Mar. on or after 9 <sup>th</sup> 0259 →0200
24	Iran	Mar. 21      0159 →0300	Sept. 23      0259 →0200

\* = actual time of change is 0000 which DDS does not support.

## TIME ZONE REGISTERS

ABIDJAN	(0) 0	EGYPT	(0) 2	MAINE	(1) 27	RHODE ISLAND	(1) 27
ADDIS ABABA	(0) 3	ELMENDORF	(1) 23	MANAGUA	(0) 26	RIO	(22) 29
AFGHANISTAN	(10) 4	EL SEGUNDO	(1) 24	MANILA	(0) 8	RIO DE JANEIRO	(0) 29
AFRICA	(0) 3	EUCOM	(20) 1	MARYLAND	(1) 27	RIYADH	(0) 3
ALABAMA	(1) 26	EUROPE	(20) 1	MASSACHUSETTS	(1) 27	ROMEO	(1) 27
ALASKA	(1) 23	FLORIDA	(1) 27	MCDILL AFB	(1) 27	SAN DIEGO	(1) 24
ALBUQUEQUE	(1) 25	FORT BELVOIR	(1) 27	MELBOURNE	(13) 10	SAN FRANCISCO	(1) 24
AMSTERDAM	(20) 1	FORT BRAGG	(1) 27	MEMPHIS	(1) 26	SANTIAGO	(23) 28
ANCHORAGE	(1) 23	FORT CAMPBELL	(1) 26	MEXICO CITY	(0) 26	SAO PAULO	(22) 29
ANDERSON	(0) 10	FORT HOOD	(1) 26	MIAMI	(1) 27	SAUDI ARABIA	(0) 3
ANKARA	(20) 2	FORT LEWIS	(1) 24	MICHIGAN	(1) 27	SCOTT AFB	(1) 26
ARGENTINA	(0) 29	FORSCOM	(1) 27	MIDWAY	(1) 21	SEOUL	(0) 9
ARIZONA	(0) 25	FRANKFURT	(20) 1	MILAN	(20) 1	SEATTLE	(1) 24
ARKANSAS	(1) 26	GENEVA	(20) 1	MILLINGTON	(1) 26	SHANGHAI	(0) 8
ATHENS	(20) 2	GERMANY	(20) 1	MINNESOTA	(1) 26	SHEMYA	(1) 22
ATLANTA	(1) 27	GEORGIA	(1) 27	MISAWA	(0) 9	SIERRA	(1) 26
ATLANTIC	(1) 28	GMT	(0) 0	MISSISSIPPI	(1) 26	SILICON VALLEY	(1) 24
AUCKLAND	(15) 12	GREECE	(20) 2	MISSOURI	(1) 26	SINGAPORE	(0) 8
AUSTRALIA	(13) 10	GREELY	(1) 23	MOLESWORTH	(20) 0	SOMALIA	(0) 3
BAGHDAD	(14) 3	GREENWICH	(0) 0	MOMBASA	(0) 3	SOUTH AFRICA	(0) 2
BAHRAIN	(0) 3	GUAM	(0) 10	MONACO	(20) 1	SOUTH CAROLINA	(1) 27
BALIKPAPAN	(0) 8	HAGUE	(20) 1	MONTANA	(1) 25	SOUTH DAKOTA	(1) 26
BALTIMORE	(1) 27	HAWAII	(0) 22	MONTREAL	(1) 27	ST. LOUIS	(1) 26
BANGALORE	(10) 5	HELSINKE	(20) 2	MOSCOW	(20) 3	STUTTGART	(20) 1
BANGKOK	(0) 7	HICKAM	(0) 22	MOUNTAIN	(1) 25	SW ASIA	(0) 8
BARBADOS	(1) 28	HOLLAND	(20) 1	MUMBAI	(10) 5	SYDNEY	(13) 10
BARCELONA	(20) 1	HONG KONG	(0) 8	MUNICH	(20) 1	TAIPEI	(0) 8
BEIJING	(0) 8	HUNTSVILLE, AL	(1) 27	NAIROBI	(0) 3	TAIWAN	(0) 8
BEIRUT	(16) 2	HURLBURT	(1) 27	NAPLES	(20) 1	TAMPA	(1) 27
BERMUDA	(1) 28	HYDERABAD	(10) 5	NEBRASKA	(1) 26	TEHRAN	(10) 3
BOGOTA	(0) 27	ICELAND	(0) 0	NETHERLANDS	(20) 1	TEL AVIV	(5) 2
BOMBAY	(10) 5	IDAHO	(1) 25	NEVADA	(1) 24	TENNESSEE-NASH	(1) 26
BOSNIA	(20) 1	ILLINOIS	(1) 26	NEW DELHI	(10) 5	TENNESSEE-KNOX	(1) 27
BRAZIL	(22) 29	INCIRLIC	(20) 2	NEW HAMPSHIRE	(1) 27	TEXAS	(1) 26
BRUSSELS	(20) 1	INDIA	(10) 5	NEW JERSEY	(1) 27	THAILAND	(0) 7
BUDAPEST	(20) 2	INDIANA	(1) 27	NEW MEXICO	(1) 25	TIJUANA	(0) 26
BUENOS AIRES	(0) 29	INDONESIA	(0) 8	NEW YORK	(1) 27	TOKYO	(0) 9
CAIRO	(7) 2	IOWA	(1) 26	NEW ZEALAND	(15) 12	TORONTO	(1) 27
CALGARY	(1) 25	IRAQ	(14) 3	NEWFOUNDLAND	(12) 28	TRAVIS AFB	(1) 24
CALIFORNIA	(1) 24	ISLAMABAD	(0) 5	NORTH CAROLINA	(1) 27	TURKEY	(20) 2
CANBERRA	(13) 10	ISRAEL	(7) 2	NORTH DAKOTA	(1) 26	UNITED KINGDOM	(20) 0
CENTRAL	(1) 26	ITALY	(20) 1	OHIO	(1) 27	UTAH	(1) 25
CENTRAL EUROPE	(20) 1	JAKARTA	(0) 7	OKINAWA	(0) 9	UTC	(0) 0
CHICAGO	(1) 26	JAPAN	(0) 9	OKLAHOMA	(1) 26	VANCOUVER	(1) 24
CHILE	(23) 28	JOHANNESBURG	(0) 2	OMAHA	(1) 26	VENEZUELA	(1) 28
CHINA	(0) 8	JUNEAU	(1) 23	OMAN	(0) 4	VERMONT	(1) 27
COLORADO SPRINGS	(1) 25	KABUL	(10) 4	ONIZUKA (CA)	(1) 24	VIENNA	(20) 1
COLUMBIA	(0) 27	KANSAS	(1) 26	OREGON	(1) 24	VIRGINIA	(1) 27
CONNECTICUT	(1) 27	KAPAUN	(20) 1	OTTAWA	(1) 27	VLADIVOSTOK	(20) 10
DAKAR	(0) 31	KARACHI	(0) 5	PACIFIC	(1) 24	WASHINGTON	(1) 24
DALLAS	(1) 26	KENTUCKY	(1) 27	PACOM AK/HI	(0) 22	WASHINGTON D.C.	(1) 27
DELAWARE	(1) 27	KOBE	(0) 9	PAKISTAN	(0) 5	WEST COAST	(1) 24
DENVER	(1) 25	KODIAK	(1) 23	PARIS	(20) 1	WEST VIRGINIA	(1) 27
DETROIT	(1) 27	KOREA	(0) 9	PENNSYLVANIA	(1) 27	WIESBADEN	(20) 1
DHAKA	(0) 6	KUALA LUMPUR	(0) 8	PENTAGON	(1) 27	WISCONSIN	(1) 26
DIEGO GARCIA	(0) 6	KUWAIT	(0) 3	PHILADELPHIA	(1) 27	WINNIPEG	(1) 26
DOHA	(0) 3	KWAJALEIN	(0) 12	PHILIPPINES	(0) 8	WICHITA	(1) 26
DOVER	(1) 27	LANGLEY AFB	(1) 27	POLAND	(20) 1	WOOMERA	(13) 10
DUBAI	(0) 4	LAS VEGAS	(1) 24	PRAGUE	(20) 1	WYOMING	(1) 25
DUBLIN	(20) 0	LONDON	(20) 0	PRINCE SULTAN	(0) 3	YOKOHAMA	(0) 9
DULLES	(1) 27	LOS ANGELES	(1) 24	PUERTO RICO	(0) 28	YOKOTA	(0) 9
EAST COAST	(1) 27	LOUISIANA	(1) 26	QATAR	(0) 3	ZULU	(0) 0
EDINBURGH	(20) 0	MADRID	(20) 1	REDMOND	(1) 24	ZURICH	(20) 1