



Dot Matrix Clock by Kareem A. Tawab

MAX7219 Dot Matrix Display, DS3231 Real Time Clock and Arduino Nano.

To enter the settings menu, simultaneously press both buttons. Press right button to go through menu items and press the left button to increment values.

Menu Item	Action
H	Set Hours (00 – 23)
M	Set Minutes (00 – 59)
y	Set Years (2000 – 2050)
m	Set Months (01 – 12)
d	Set Day (01 – 31)
%	12/24h time format (00 = 12h time format, 01 = 24h time format)
f	Font style (show # of font in select font style 01 - 05)
:	Dot style (0 - hidden, 1 - shown, 2 - blinking)
b	Backlight intensity (00 - 15)
R	Font turning 1 (turn each character; 00 = off, 01 = on)
r	Font turning 2 (turn all display; 00 = off, 01 = on)
U	Turn font Upside-down (00 = off, 01 = on)
v	Vertical mode (00 - standard horizontal, 01 - vertical mode)
i	Invert display (00 - no invert, 01 - invert display)
Strt	Reset seconds (set to 00) after releasing the button and then show the actual time

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