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Angular Clock						FREE SHIPPING TO THE USA FOR ORDERS OVER \$25		
A gre Avail	at new way to tell th able for purchase	ne time. The <u>here</u> and sc	Angular Clock uses	three voltmeters to tell t er faces available <u>her</u>	he time, and its hacl <u>e</u> .	kable.		
Assembly time: About 45 minutes							AIR QUALITY EGG INTEREST SURVEY	
What	t you need: Phillips	screwdriver	, small flat screwdriv	er and wire strippers. N	o soldering required			
What	t's in the box:							
A. Enclosure cutouts							Air Quality Egg	
B. Angular clock circuit board							Kits and Assen	obled Projects
C. Power supply							Microcontroller/Arduino	
D. Three Voltmeters, and three small screw packets E. 3 Clock faces, and an extra blank face							New Products	
F. Ribbon Cable to connect the meters to the circuit board							Parts and Accessories	
G. Time adjustment knob							Robots	
H. Mounting hardware – 16 nuts and 12 screws						Sensors		
Assembly Overview						Shields and Add-ons		
							Uncategorized	
The b	pasic idea is to mour	nt the circuit	board onto the base	, assemble the rest of t	he	The second	Wireless links	
enclo below	osure and then put the	ne base and	the rest of the enclo	sure together. Details			LATEST BLOG PC	DSTS
Clo	ock Startup	Seque	ence		8		Office painting	
					- 6-		Eag: Getting th	e data out
Once	assembled and pov	wered up, th	e clock goes through	the following startup	Canal I	1	Egg Version O	ne End Of Life
seque	ence.		5 5	0 1	- And		Egg Firmware	Update Today
A.	The red and green	LEDs on the	e controller board alte	ernately flash 5 times.			Air Quality Egg	: Offline Mode FTW
В.	The three meters so deflection (left).	weep all the	way to full deflectior	n (right) and back to zer	0		TUTORIALS	
Once	the startup sequen	ce is comple	ete the clock will star	t displaying time.				
Tin	ne Adiustm	ent					MintyTime	
						Day Counter		
							Nanoue Galeway/R	CINULE
i he ti or coi illumi	ime displayed on the unterclockwise moven nate, the red LED ill	e meters car es time forw luminates wl	n be adjusted using t ard or backward. Wh nile time is being adj	ne knob on the rear of t nile time is being adjuste ust backward.	ne clock. Turing the ed forward the green	KNOD ClOCKWISE	FORUMS AND BL	.OG
Clock Meter Adjustments						Wicked Device Blog		
You c	an adjust needle de	eflection alig	nment for the hour a	nd minute meters using	the following procee	dure. Start a		TACTUS
serial starts	l monitor program su up it will output the	uch as the m following m	nonitor built into the A essages to Arduino s	Arduino IDE. Set the bar serial monitor. (Serial m	ud rate to 115,200. V onitor tutorial)	When the clock	ABOUT AND CON	11ACT US
While	e the Arduino is goin	g through th	e startup	● ○ ○ /dev/1	ty.usbserial-DA00AGZ4		ADOUT WICKED DEVIC	ce
sequence type any character followed by carriage return into the serial monitor. You will then be						(Send)	Wicked Device LLC	454
prompted to use the knob on the rear of the clock and Type any key and «return» to enter meter adjustment mode							95 Brown Rd, Suite M/S 1042	104
adjust the hour and minute meters to specific locations.							Ithaca, NY, 14850	
mese meter adjustments are stored in nonvolatile memory and therefore only need to be performed							email us	
once.								
				Autoscroll	No line ending	115200 baud		

Q

Battery Backup

The clock has a slot for a cr1220 3V battery. This battery will allow the clock to maintain time if powered off, for instance during a power failure.

Assembly – Step by step instructions:

Image	Description
	Peel off the paper backing from the plexi.
4 4 4 = 4	Insert the screws into the base, and secure with a nut on top. Finger tighten the nut
	Add the PCB, and secure with more nuts. Finger tighten.
	Onto the rest of the enclosure. Assemble the 4 four sides.
	Make sure the cutout for the adjustment knob is on the right side. On the right looking at the front of the clock.
A CONTRACT OF CONTRACT.	Remove the meter covers.
Juniu V grant	And the meter faces. Be careful not to bump the meter needle. It is somewhat delicate.
	Here are all the parts for the meter.
a z internet a	Stick the labels for Hours, Minutes and Seconds over the top of the meter faces. Don't fold the tabs over.
	Here you can see that the new faces are larger than the meter faces. Do not fold the tabs over.
	Slip the face back under the needle from the top.

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5 10 45 00 Minutas	Let's take the chance for a quick adjustment. Here we can see that the needle for the meter is not lined up to the "0". You can move it by pushing the silver bit of metal below the axle. This will move the needle.
a B C O Menutos	There. It is nicely aligned to the zero.
Hours	Now cram the cover on. This will fold the tabs over. add the labels to all three three meters.
a a a	Insert the meters into the plexi cover.
	Each meter has a small bag of screws and hardware. Screw in a washer and a nut on each post.
	Great! The back of the face panel is done. We are more than half way!
	Next the ribbon cable. The screwdriver indicates pin 1, the leftmost (+) seconds position. Counted this way, odd numbered wires are (+) and even numbered wires are (-) connections. Left to right as pictured, it's seconds (+), seconds (-), minutes (+), minutes (-), hours (+), hours (-). NOTE : Cables are different colors. Don't rely on cable color. We used colors so the pictures are easy to understand.
	Plug the cable into the board as shown.
	Here it is plugged in.
	Now separate out the individual wires
	Three pairs, each with two wires.
	Strip the wires.

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Wrap them around the posts. Use the washer and a nut to secure.
Here we can see the cables.
OK. Put the top onto the rest of the enclosure.
Here is a technique to hold the nuts in place.
Drop the screw in from the top and tighten it up.
This is what it should look like
Add the adjustment knob. It has a small grub screw to keep it in place. That should screw against the flat side of the post.
Add the bottom on.
Here we are putting the tabs in.
The final two screws are harder than the others. Hold the clock vertically, and use gravity to help, as shown.
Insert the screw, and tighten.
Done! Congratulations!



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