

GPS MASTER CLOCK SPECIFICATION

- WORKING CURRENT = 10 AMPS.
- TRANSMISSION FREQUENCY = 433.5 MHZ.
- TRANSMISSION TIME = < 2 MILLISECONDS.
- GPS RECEIVER = GPS-634R.
(65 channels with ultra-high Sensitive Smart GPS Antenna module)
- TRANSMISSION POWER = 60 WATTS RMS POWER.
- ENCLOSURE = STAINLESS STEEL.
- REAL TIME CLOCK (RTC) = DS1307 (FROM DALLAS).
- TIME ERROR PER YEAR = +/- 1 MINUTE.
(IN THIS CASE SINCE WE HAVE GPS THERE IS NO TIME ERROR EVEN PER DAY)
- THE ENTIRE SYSTEM WORKING VOLTAGE = 12 VOLTS.
- EXTERNAL ANTENNA = TELESCOPIC.
- EXTERNAL ANTENNA CABLE = 10 METERS.

GPS MASTER CLOCK TROUBLESHOOTING GUIDE:

- THE LCD SHOWS A MESSAGE "CONNECT ANTENNA".
- IF THIS ERROR COMES THE DEVICE WILL NOT TRANSMIT THE TIME DATA.
- THIS MESSAGE MEANS THAT THE ANTENNA IS NOT CONNECTED. SO CONNECT THE ANTENNA THE MESSAGE GOES OFF AND THE DEVICE WILL START TO SHOW THE TIME.
- IF THE LCD SHOWS A MESSAGE "CONNECT GPS".
- IF THIS ERROR COMES THE DEVICE WILL NOT TRANSMIT THE TIME DATA.
- THIS MESSAGE MEANS THAT THE GPS WIRE MIGHT HAVE CUT OR THE GPS RECEIVER MAY HAVE DAMAGED.
- SO CHECK THE GPS WIRE, RATS MIGHT HAVE CUT IT.
- IF THE LCD SHOWS A MESSAGE "DATA ERROR".
- IF THIS ERROR COMES THE DEVICE WILL NOT TRANSMIT THE TIME DATA.
- THIS MESSAGE MEANS THAT THE GPS IS INSTALLED UNDER SOME SHADOW OR SOME THINGS LIKE METAL, BRICK ETC WILL BE BLOCKING THE GPS RECEIVER. SO GO TO THE INSTALLATION PLACE AND SEE THAT NOTHING BLOCKS THE RECEIVER AND THE RECEIVER IS CLEARLY OPEN TO THE SKY.
- IF THE SYSTEM DOES NOT POWER ON CHECK FOR THE SMPS POWER SUPPLY. THE SMPS WILL HAVE A GREEN LED AT THE OUTPUT. IF THE SMPS IS WORKING THEN THE LED WILL GLOW. IF STILL THE PROBLEM EXISTS CHECK FOR THE CONNECTOR FOR THE SMPS TO THE DEVICE. RED WIRE SHOULD BE CONNECTED TO THE RED CONNECTOR AND THE BLACK WIRE TO THE BLACK CONNECTOR.
- IF STILL NOTHING WORKS SEND IT BACK FOR SERVICE.