

LDG Electronics, Inc.

MC-7300 Meter for Icom IC-7300

For Icom IC-7300 Transceivers



LDG Electronics, 1445 Parran Road, Saint Leonard, MD 20685

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Specifications & Ratings

- Meter: 3.0" Illuminated Analog Meter
- Illumination: Color LED Backlight, Adjustable Brightness
- Radio Connection: Stereo 3.5mm tip-ring-sleeve
- DC Power supply, Stereo Cable & Cable Choke included; DC Connector: 5.5x2.5mm Center Positive
- Voltage: 13.8 VDC +/- 15%
- Current Draw: 500 mA max
- Dimensions: 4.5"x3.5"x3.5" (114 x 90 x 90mm)
- Weight: 13 ounces (368 grams)

Introducing the MC-7300 Meter

Congratulations on selecting the LDG Electronics MC-7300. The LDG Color Analog Meter is a precision instrument that will provide many years of quality service. The meter provides a three-inch analog meter to compliment the “virtual” meter on your IC-7300’s display panel. It shows S-Meter reading on receive and RF power output on transmit.

The meter is illuminated by high-visibility color LEDs from behind. This color backlighting is very attractive, easy on the eyes during long operating sessions, and makes it a snap to read the meters precisely. The meter has adjustments on the back for color and brightness settings. Be sure to read the entire manual to ensure safe operation and long life of the meter. With proper care this meter will provide many hours of enjoyable operation.



Welcome Notes

Welcome to the LDG Electronics family of amateur radio equipment! Starting in 1995 and based in St. Leonard, Maryland, LDG defines state of the art equipment for the Amateur (“Ham”) radio community. In addition to offering established equipment, we’re continuing to grow our product line. Check our web site (<https://www.ldgelectronics.com>) to learn about new developments!

Technical Support

The LDG customer support staff are ready to answer your product questions by telephone and by e-mail. We know that you will enjoy your product even more knowing LDG is ready to answer your questions as the need arises. Visit the Support Center at: ldgelectronics.com/support

Our website links you to the on-line Customer Support Center where you can send us a question, do your own research in the LDG Product Knowledge Books, and read through lists of frequently asked product questions. LDG regularly updates on-line information, so the best on-line support information is available all day and every day.

The LDG website provides links to product manuals just in case you lose this one! When you are thinking about the purchase of other LDG products our website also has complete product specifications and photographs you can use to help make your purchase decision. Don't forget the links to all the quality LDG Dealers who are also ready to help you make that purchase decision.

Two-Year Transferable Warranty

Your product is warrantied against manufacturer defects in parts and labor for two full years from the date of purchase. This two-year warranty is also transferable. When you sell or give away your LDG product, give the new owner a copy of the original sales receipt and the two-year warranty transfers to the new owner.

There is no need to complete a warranty card or to register an LDG product. Your product receipt establishes eligibility for warranty service, so save that receipt. Send your receipt with the product whenever you send your product to LDG for repair. Products sent to LDG without a receipt are considered requests for out-of-warranty repair.

LDG does not guarantee product damage or abuse. This means that a product failure, as determined by LDG, to be caused by the customer or by other natural calamity (ex: lightning) is not covered under the two-year warranty. Damage can be caused by failure to heed the product's published limitations and specifications or by not following good Amateur practice.

Out Of Warranty Service

If a product fails after the warranty period, LDG wants to help you get it fixed. Send the product to us for repair any time you like. We will determine what needs to be done and contact you with an estimate.

Returning Your Product For Service

Returning a product to LDG is easy. We do not require a return merchandise authorization. Visit the Customer Support Center: www.ldgelectronics.com/support and download the LDG Product Repair Form. List all contact information including email address and all details of problems you are experiencing. For warranty service, please include a copy of your purchase receipt. After the unit is received and logged into our service department system, an email will be sent confirming your unit is in process. Repairs can take three to four weeks but are usually faster. The most recent information on returning products for service is found at the LDG Customer Support Center. Ship unit with repair form to:

LDG Electronics, Inc.
Attn: Repair Department
1445 Parran Rd
St. Leonard, MD 20685

Product Feedback

We encourage product feedback! Tell us what you really think of your LDG product. In a card, letter, or email (preferred) tell us how you used the product and how well it worked in your application. Send along a photo or even a schematic or drawing to illustrate your narrative. We would like to share your comments with our staff, our dealers, and even other customers on the LDG website.

Your MC-7300

Your MC-7300 is a quality, precision instrument that will give you many years of outstanding service; take a few minutes to get to know it.

Front Panel:

The front panel of the MC-7300 displays only the meter face. No controls are present on the front panel.



Back Panel:

The rear panel of the MC-7300 has two jacks and three controls:



- **On/Off:** Turns power on & off
- **Color:** Adjusts illumination color
- **Bright:** Adjusts illumination brightness
- **Radio:** 1/8" (3.5mm) stereo jack connects the MC-7300 to your IC-7300 transceiver
- **+12VDC:** Connect the supplied DC Power supply (5.5 x 2.5 mm connector and a source of 13.8 +/-15% VDC at 500 mA or above, center pin positive)

Installing the MC-7300

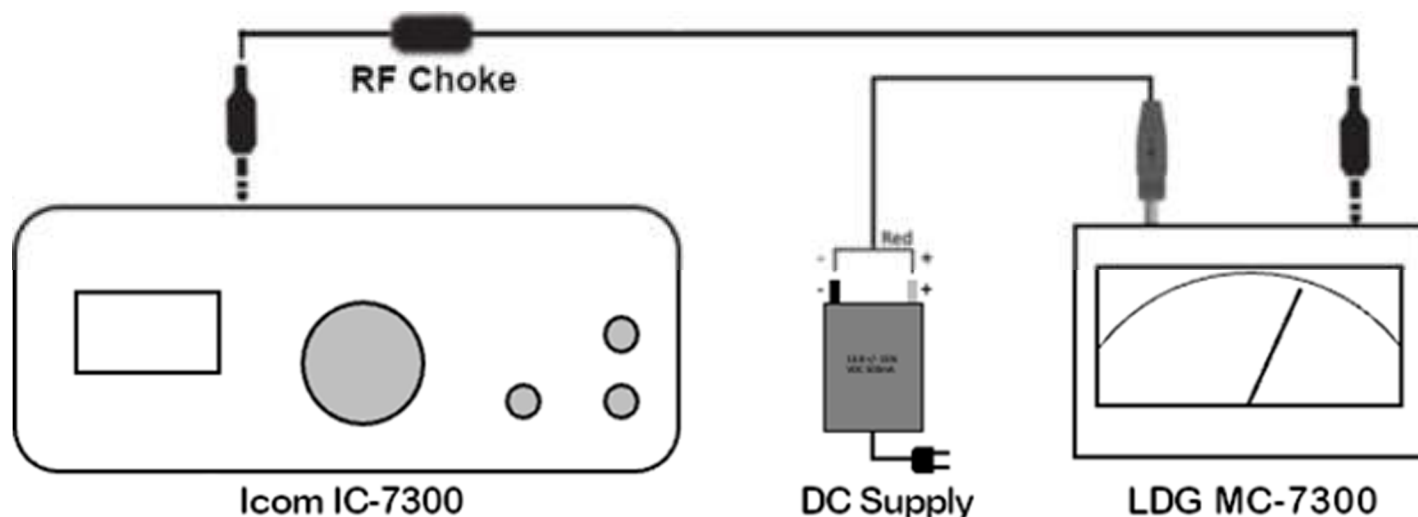
The MC-7300 is intended for indoor use only; it is not water-resistant. If you use it outdoors, you must protect it from rain just as you would your radio.

Always turn your radio off before plugging or unplugging anything. The radio may be damaged if cables are connected or disconnected while the power is on.

With the radio turned off, connect one end of the supplied stereo cable to the “REMOTE” jack on the back of the radio. Connect the other end of the cable to the jack marked “Radio” on the back of the meter. Place the snap-on RF choke on the stereo cable closer to the Radio end. Wrap the cable two or three times around the choke, then snap the choke closed.

Connect the red and black DC cable with 5.5 x 2.5 mm plug to a DC supply that can provide 13.8 +/- 15% VDC at 500mA or above. The red tinned wire goes to positive and black goes to ground.

The push button on/off switch on the back of the meter controls the power to the unit. With the unit on, adjust the brightness and color of the meter. Position the radio and meter for normal use and enjoy the view.



IC-7300 Installation:

The REMOTE jack on the IC-7300 is located on the back panel of the radio. Plug one end of the included 1/8" stereo cable into the REMOTE jack. Plug the other end of the cable into the jack marked "Radio" on the back panel of the MC-7300.

Connect the included Power supply to the DC Power jack on the rear of the MC-7300.



Setup

One menu item in the extended menu system of the IC-7300 transceiver configures an external CI-V connection such as the MC-7300.

On the front of the radio, press the MENU button once. This opens the extended menu system. Navigate to the CI-V menu by pressing SET, then CONNECTORS, then CI-V.

MENU -> SET -> CONNECTORS -> CI-V.

While in the CI-V menu, set 'Baud Rate' to 19,200, 'Address' to 94h, and set 'Transceive' to OFF.

To exit the menu system, press the MENU button on the front of the IC-7300 radio. The meter is ready to use in your station.

Operation

Operation of the MC-7300 is completely transparent; no user input is required. Simply operate the transceiver as usual; the MC-7300 will display the S-Meter during receive operation and watts during transmit.

Application Notes

Base Station Use

The MC-7300 meter may be placed nearly anywhere on the operating desk. The included 1/8" (3.5mm) stereo connection cable provides the ability to place the meter up to several feet away from the transceiver. Some obvious choices include the top of the radio, beside the radio, or near the station's computer.

Mobile Use

The MC-7300 is ideal for use in a car, truck or RV. For mobile use LDG recommends that a fused power cable (not included) be used to power the MC-7300. A 1 amp "fast-blow" fuse is recommended. Remember to keep your eyes on the road when driving, and not on the MC-7300 meter!

Other Icom Radios

The MC-7300 uses the CI-V port that is common to many Icom radios. It is possible that the MC-7300 can be used with other Icom radios that have a CI-V port that can be configured to address 94h and 19,200 baud rate. Note that the accuracy of the scale for other Icom radios may or may not match the accuracy for the IC-7300 radio.

Care and Maintenance

Your MC-7300 is essentially maintenance-free. As with any modern electronic device, the MC-7300 can be damaged by temperature extremes, water, impact, or static discharge. The outer case may be cleaned as needed with a soft cloth slightly dampened with household cleaning solution.

