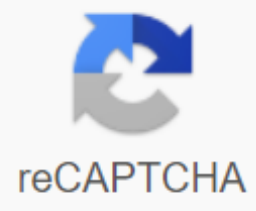




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Lamotte 2020we turbidity meter manual

In 2020e and 2020i the turbidity of meters will display negative results if the water sample is less muddy than the empty reading. This is possible in ultra-low muddy waters, where the turbidity of the sample is at the limit of detecting the meter or near it. Negative readings may also indicate a problem when the meter is harvested. If the counter is accidentally empty to the 1.0NTU standard, subsequent tests may be negative, in response to high blank reading. Fix this problem by dropping the meter on factory calibration settings: with the counter off, hold the OK button and press ON. Release both buttons at the same time. Click on OK to select the default settings. Click on OK again and the counter will shut down. Factory settings will be restored. Follow the instructions on how to properly fill a muddy tube with standard solutions (see below). Once the tubes are standard, turn on the cloud counter and enter the measurement mode. Scan of an empty tube (0.00 NTU). Then leave an empty tube in the meter and click on OK to scan the space as a sample. He should read 0.00. If not, click the UP button and re-empty the meter again. Then scan the space as a sample again until it reads 0.00. This can take at least three attempts. NOTE: A small negative number will be observed if the readings are slightly less than the reading used as a space. This is expected due to the smallest variations between readings. Reading -0.02 or even -0.04NTU is not uncommon. Once 0.00 or a very small negative number is reached, the meter is ready to be calibrated. Filling turbidity pipes It is important to use the correct test tube designed for use from 2020e and 2020i muddy meters, LaMotte code 0475. Pipes should be clean and free of fingerprints, lint, dried spills and significant scratches. Use a pile-free cloth to wipe your pipes clean. When filling the tube with a standard solution, rinse the vial with a small amount of standard solution, three times, and then fill up to the line. This ensures that no dust, debris or dirt will contaminate the standard solution you pour into the bottle. Put a dry tube positioning the ring on the tube. The tube positioning ring has two conical notches and one square clipping. Place the ring on the tube so that one square clipping is aligned with a vertical white index line that extends 90 degrees from the horizontal line of the tube filling. This ensures that you correctly index the tube inside the light chamber every time. Wipe any liquid that may have leaked between the positioning ring and the surface of the tube. The tube cover and apply the Avery label are marked with the appropriate NTU value. Unstable Readings can occur when excessive physical change occurs in the sample while scanning the sample in a meter. Settlement and precipitation can lead to this in waters of high turbidity and even even air bubbles and sub-chronic particles can cause this in waters with low turbidity. In response to these situations, ERR4's Processing Error may be launched. To get the most accurate and stable readings possible, use the meter signal averaging function. Turn on the counter and select The Settings, then the averaging. Choose between 2, 5 or 10 dimensions. Click OK and then click Back to go back to the main menu. Averaging signal 5 measurements is usually sufficient and provides the optimal balance of signal averaging benefits, with minimal stress for the battery. Power problems Don't forget to use the brand 9V alkaline battery. Heavy Duty, Rayovac and store branded batteries do not have enough sustainable power to keep the meter and power bulbs. We offer Duracell Alkaline 9V batteries.

We offer Duracell or Energizer 9V NiMH batteries. When using the meter in the laboratory, remove the battery altogether and work exclusively with the appropriate type of AC adapter designed for 2020e and 2020i meters. LaMotte offers a AC adapter as an additional accessory, code number 1754. If there is any visible damage to the battery connector, contact LaMotte's technical services to obtain a refund authorization number and take steps to repair the meter. Any unauthorized meter changes will void the warranty. Calibrate See pages 32 and 33 for calibration instructions. The 2020e and 2020i are capable of single-point calibration. For the greatest accuracy, an empty meter is first, using the appropriate 0.00NTU blank standard. Empty reading is not considered a calibration point. It is the benchmark for improving low-level detection and calibration. Once the counter has been harvested, choose one standard counter calibration solution. It could be a solution of 1.0, 10, 100 or another formazin solution. Keep in mind that the counter is only capable of calibrating one point. Calibrate to 1.0NTU if the samples are expected to be 1.0NTU or less. Calibrate to 10.0NTU if the samples are expected to be more than 1.0NTU. Error 1 Message Low Battery. See The Nutrition Problems above. The Err 2 message was an attempt to calibrate the counter beyond acceptable ranges. 2020 meters will not allow the user to recalibrate when the initial reading of the standard solution deviates more than 50% of the standard concentration. Reading 0.49 NTU is too low for the 1.0NTU standard and calibration to 1.0NTU will not be possible. This can happen if the standard solutions are not specifications or if there is a problem with the meter harvesting before calibration. Make sure the standard solution is suitable for use from 2020e or 2020i. LaMotte Company makes standard solutions specifically for 2020e and different standards that 2020i standard solutions may not be able to Interchangeable. Confirm by comparing the code numbers on the bottles with the 2020 guide. Formazin standards can be used if prepared accurately and used while fresh. If the standards are within the expiration date, try to reset the meter to the factory calibration. See the Negative Results above, or page 22 of the 2020 instructions guide for instructions on how to reset the meter to the factory calibration. Message Err 3 Attempting to calibrate the counter with a zero sample. Use only a blank 0.00NTU standard to set an empty reading and then calibrate up to the standard LaMotte solutions. Err 4 message processing error. See Unstable Readings above. Message Err 5 without empty reading. The meter was never empty. Must empty meter using 0.00NTU empty standard solution. The Err 6 Meter message should be re-empty and the sample rescanned. Err 7 Post Call LaMotte Technical Service at 1-800-344-3100. Repair If you need to return the device for repair, call LaMotte at 1-800-344-3100 or by fax at 1-410-778-6394 for reverse authorization. See the link Contact us below for our normal opening hours. Visit www.coronavirus.gov for information on the Coronavirus Disease Pandemic (COVID-19). If you don't understand these 3 words, Google them: symptom, symptomatic and imptomatic. Some of us were ignorant of Clarkson, but not anymore. 1 2 Table Contents 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 53 54 55 56 57 58 59 59 60 The 2020e and 2020i muddy meters will display negative results if the water sample is less murky than the empty reading. This is possible in ultra-low muddy waters, where the turbidity of the sample is at the limit of detecting the meter or near it. 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