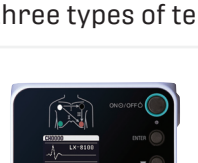
Telemetry Transmitter Reference Guide

Identifying Telemetry Type

There are three types of telemetry transmitters.



Model LX-8100
ECG / Respiration
- Requires 1x AA alkaline battery
- Battery life of approximately 6 days
- LX-8100(G) ~1.5 days

Model LX-7230N-R
ECG / Respiration / Nellcor™ SpO2
- Requires 2x AA alkaline battery
- Battery life of approximately 2.5 days with SpO2 use
- LX-7230(G) ~1.5 days

Model LX-8300
ECG / Respiration / Masimo® SpO2
- Requires 2x AA alkaline battery
- Battery life of approximately 2.5 days with SpO2 use
- LX-8300 ~6.5 days - SpO2 Off

Battery life icon will appear in LCD screen.

- Central Station will also indicate "low" battery.

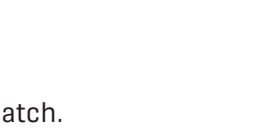
LCD screen displaying one waveform from 2x ECG/Resp/SpO2 (LX-7230 and LX-8300 only)

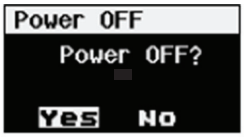
Battery Symbol	Remaining Battery Level
	Full
	Getting low but still available
	Nearly empty; Replace the battery

The battery level estimation is in case of using alkaline batteries.

Getting Started

1. Insert battery(ies) and close the lid.
   Please follow the directions on the telemetry transmitter for inserting the batteries!
2. Plug in ECG lead wires.
   - **LX-7230N-R** - Plug in a Nellcor™ MAX-AL SpO2 sensor into the connector and secure with latch.
   - **LX-8300** - Plug in a Masimo® SpO2 sensor into the connector and secure with latch.
3. To turn **ON/OFF** the Telemetry transmitter
   - **LX-8100 and LX-8300**
     - Press the **ON/OFF** button for 2-3 seconds to power ON.
     - To turn off, press the **ON/OFF** button until a notification message is displayed.
     - Press the **ENTER** button to turn off the telemetry transmitter.
   - **LX-7230N-R**
     - Move the **ON/OFF** switch to the **"ON"** or **"OFF"** position.





NOTE: Telemetry channel number displays on the LCD screen immediately after turning the equipment on.

4. Place ECG electrodes on patient following the diagram on the telemetry transmitter, with one exception.
   - Place the **RED** lead mid-axillary between the 5th and 8th intercostal space.

NOTE: Placing this lead in this position will result in a more accurate respiratory reading

Waveform Display

The following information is available in the LCD viewing window:

- Waveform selection from ECG 1 / ECG 2 / Respiration / SpO2 (LX-7230N) / SpO2 larger numeric (LX-7230N)
- Heart Rate
- Pacemaker Mark indication
- Remaining Battery Level
- Displays "Check Electrode" message

NOTE: The LCD display will automatically turn itself off after 3 minutes if no operation is done
To display again, simply touch the Enter button. HR/Resp/SpO2 (LX-7230N) will be displayed every time you press the button.

Electrodes

Please be aware of the following items when you attach electrodes:

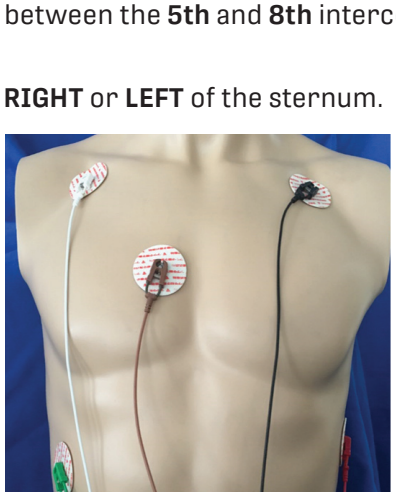
- Do not mix different types of **Electrode Patches**.
  It can cause noise/artifact.
- Change electrodes every **24 hours** for optimal reception and reduced artifact on the waveforms.
- Keep electrodes in **AIRTIGHT** bag to avoid them from drying out.
- When applying electrodes, make sure skin is clean and dry.

Lead Placement

- **White** - place on patient's **RIGHT** side, mid-clavicular.
- **Green** - place on patient's lower **RIGHT** side.
- **Black** - place on patient's **LEFT** side mid-clavicular.
- **Red** - place on the patient's **LEFT** side, mid-axillary between the **5th** and **8th** intercostal space.

When using 5 Lead:

- **Brown** - place at the **4th** intercoastal space to the **RIGHT** or **LEFT** of the sternum.



Care of the Transmitter

- Turn off the telemetry unit.
- Remove and discard battery (ies).
  Do NOT reuse batteries of different strength.
- Clean telemetry transmitter.
  Refer to the operation manual for cleaning and disinfection.
- Hang or loosely coil the patient cables.
  Do NOT bend or place a rubber band around these cables. It will damage the cable components and affect reception.

Troubleshooting

- **ARTIFACT**
  - Change the **Electrode Patches**. (Recommendation is every 24 hours)
  - Make sure there are no kinks in the lead wires.
    - If kinks are found, change the lead wires.

- **DROPPED SIGNAL**
  - Check location of the **Telemetry Transmitter**.
    - Best Practice: Make sure that the telemetry transmitter has an unobstructed view to the ceiling/antenna
  - Replace the **Battery, Electrodes, Wires**.
  - Change the telemetry transmitter.
    - **If this corrects the issue, note the channel number and inform management.**

FUKUDA DENSHI USA, INC.
17725-C NE 65th Street Redmond, WA 98052
Toll Free: (800) 365-6668 / Local: (425) 881-7737 / Fax: (425) 869-2018
www.fukudaamerica.com