Problems? - please check the following:

☐ No pulse output being shown in 'real-time' display:

Check transmitter working using the watch - if not replace transmitter battery.

If OK move LogIT receiver nearer to transmitter. Check LogIT battery.

☐ Sudden increases of heart rate (spikes) shown:

Receiver has picked up interference from nearby equipment or been knocked causing extra pulse(s). Adjust position of LogIT/Receiver.

☐ Occasional loss of results:

Transmitter strap too loose or requires better skin conduction (see below). Transmitting distance too far - replace transmitter battery or move receiver nearer.

Important information

The watch may also be worn to check transmitter and monitor pulses live but it will not necessarily indicate correct reception by the Heart receiver.

If required the Heart Receiver can be used a short distance away from LogIT using a single Microsense extension cable. This allows it to be more easily placed on the body (eg in a top track suit pocket) next to the Polar etc. Heart Transmitter. Note that if the subject being monitored is not doing strenuous exercise there may be insufficient body sweat to allow good conduction between the skin & the two transmitter conductive belt pads. Special conductive gel's available from some chemists will improve conductivity (eg 'Dracard' electrode gel, K-Y gel) or you can make up a saline solution. Smear a small amount of gel on each pad but TAKE CARE NOT TO SHORT THE TWO PADS OUT WITH THE GEL OR THIS WILL PREVENT RELIABLE OPERATION.

Other sensors may be plugged into LogIT at the same time as the heart receiver (for example a temperature probe to monitor skin temperature) and general purpose software will display their results as well as the pulse rate.

Note: This product must not be used in life support applications

How the system works

The POLAR (or equivalent) system works by detecting and amplifying the small electrical heart signals through the skin using two conductive rubber pads and then transmitting a pulse to a receiver using a short range low frequency signal. The LogIT Heart Receiver is a miniature version of the watch which receives the signal and converts it into a form which LogIT can use to show and log results. As the instructions supplied with your POLAR system points out, it works on a frequency which makes the watch (and the LogIT Heart Receiver) also sensitive to physical knocks and electrical interference from other equipment, especially television monitors. The LogIT Heart receiver contains circuitry which helps to reduce the effect of nearby equipment and also restricts the reception direction range, but you should always keep as far as possible from electrical equipment (Minimum 1.5 metres) & avoid knocking the receiver.

In case of difficulty please contact DCP Microdevelopments Ltd.

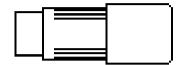
DCP Microdevelopments Ltd., Edison House, Bow St., Great Ellingham, Norfolk, NR17 1JB.

Telephone: +44 (01953) 457800 - Fax: +44 (01953) 457888

eMail: support@dcpmicro.com - Website: www.dcpmicro.com

Microsense® Heart Receiver

DataMeter 1000/ LIVEX LogIT SL/



VERY IMPORTANT

This product will give excellent results but must be correctly set up.

Please read these instructions carefully before use.



www.dcpmicro.com

eMail: info@dcpmicro.com

DCP Microdevelopments Limited Edison House Bow Street, Great Ellingham Norfolk NR17 1JB GREAT BRITAIN

Tel: +44 (0)1953 457800 FAX: +44 (0)1953 457888

Introduction

The LogIT Heart receiver enables a person's heart rate sent from a 'POLAR', 'Wristcoach' or similar wire-less pulse transmitter system to easily be monitored and recorded either 'live', or stored in LogIT for later recall and display. It is a precision and delicate piece of engineering - do not drop it or get it wet and never try to dismantle it. The system is easy to use but needs to be set up correctly for reliable operation, so please read these instructions fully before use. The equipment required:

Before using your POLAR system (or equivalent) with LogIT we recommend you test and get used to using the transmitter and watch set on their own to appreciate the basic principles and limitations of the system - we strongly recommend you apply a conductive gel to each pad (see back page) before fitting the transmitter.

You are assumed to already have experience in using LogIT - if you do not please refer to the instruction manual supplied with LogIT.

Setting up the system

The LogIT + Heart Receiver set works best when used independently from the computer but it can be connected for a live display of results.

The unit is a small high frequency receiver tuned to the POLAR transmitter but may also pick up interference from monitors, computers etc. so if you have a LogIT with a display (e.g. DataMeter or SL + CheckIT) use these to set up the system away from the computer. Correct positioning is essential to ensure reliable operation as the transmitter gives out only a very small signal which is directional, so please use the diagram opposite to position equipment correctly, with Receiver in socket 1.

Logging results remotely

When you are ready to log simply turn on the logger and press the green button to start AutoLogging. You can mark events in the usual way and when you have finished exercising turn on the logger and press the red button. You can then load the results in the usual way. Keep away from sources of interference such as TVs, monitors, motors etc.

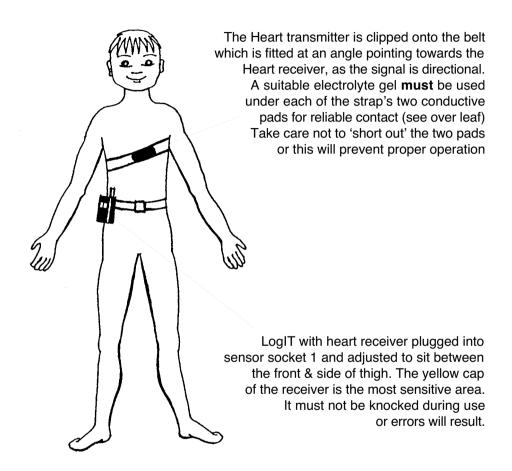
Real Time Logging

After loading your software, connect the LogIT link cable from the computer the LogIT, keeping LogIT as far away from computer/monitors as possible. If you have general purpose logging software (e.g. LogIT Lab, Insight etc.) we suggest you select the real time display to set up the system. If all is well you should see the heart rate being displayed on the screen - if not refer to *Problems?* on the back page.

VERY IMPORTANT: Keep Heart receiver/LogIT <u>as far away as possible</u> (minimum 1.5 metres) from computer & monitor as the receiver is very sensitive to interference.

Preparing body and equipment!

The most important part of setting up your Heart monitoring system for reliable operation is good positioning of the transmitter and receiver.



You can experiment with the position of the transmitter and LogIT but make sure that the heart receiver is not accidentally knocked with your hand or leg as unwanted extra pulses will be added to the results (Because the system has to estimate beats-per-minute every second just one knock can effectively double the pulse rate calculated an increase readings dramatically).

<u>IMPORTANT</u>: Always keep as far away from computers and screens as the cable will allow (Minimum 1.5 metres) or they will interfere with the signal.

NEVER REMOVE CAP OR DISMANTLE RECEIVER