General Description

The INFINITY telemetry transmitter is worn by the patient and can be used with a 3-, 5-, or 6-lead wire set with attached ECG electrodes. The lead wires detect the patient's ECG, including paced beats, and the transmitter broadcasts these signals to the dedicated MULTIVIEW WORKSTATION.

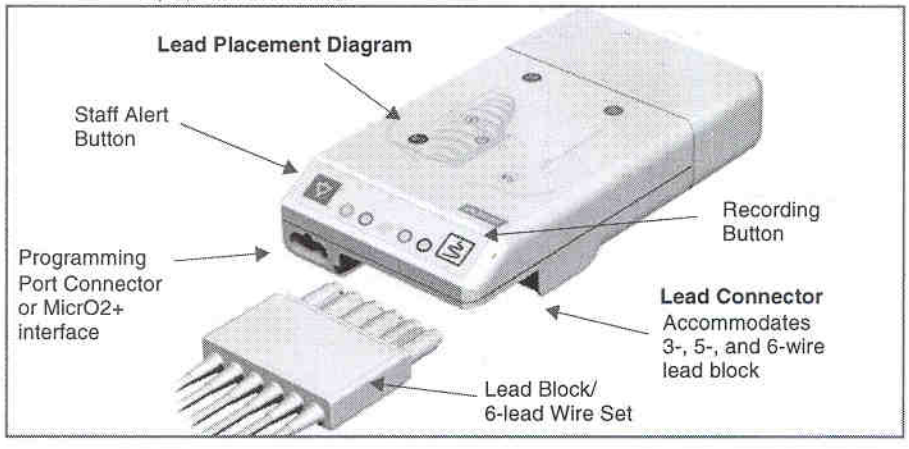
⚠ ***CAUTION:*** *Do not roll or loop lead wires together. Tape each lead separately to the patient.*

NOTES:

1. Siemens INFINITY TruST™ and 6-wire transmitter require 510(k) review and are not yet commercially available in the U.S.
2. Siemens INFINITY TruST™ and 6-wire transmitter are not yet licensed in accordance with the requirements of the Canadian Medical Devices Regulations.

Transmitter Components

3-, 5-, 6-wire Transmitter



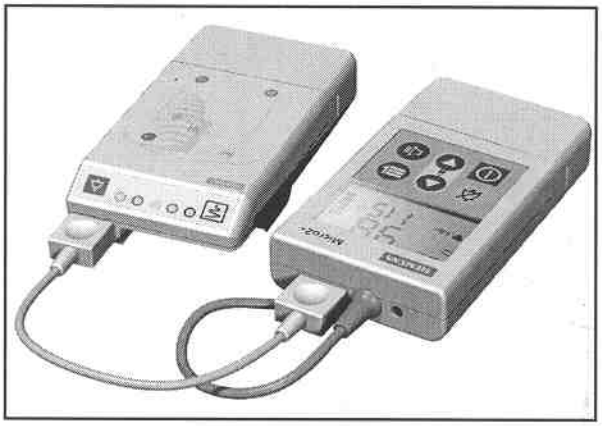
Lead Connector

The transmitter **Lead Connector** can accommodate a 3-, 5-, or 6-lead wire set.

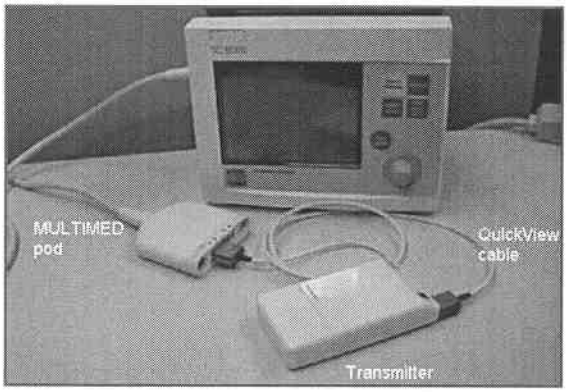
Programming Port Connector/Interface

The transmitter has a connector that can be used to:

- ***Program the transmitter*** (see page 2-10).
- ***Connect to the*** MICRO2+ ***oximeter*** for monitoring SpO_2 and pulse (chapter 9, *Telemetry Pulse Oximetry Monitoring*).



- ***Connect to a QUICKVIEW cable*** that is also connected to a bedside monitor (via the MultiMed pod) to view an ECG waveform (lead II) and possible pacer spikes.



NOTE: For the best possible ECG signal, you should only use the QuickView cable when the transmitter is in 5- or 6-wire mode.

Transmitter Buttons

NOTE: The transmitter buttons are only functional if they have been activated (see page 19-21).

- The red *staff alert* button allows the patient to initiate a serious alarm which sounds at the MULTIVIEW WORKSTATION. The message Staff Alert is displayed in the patient's viewport. You can silence this alarm at the MULTIVIEW WORKSTATION with the **Alarm Silence** button.
- The white *recording* button allows you to begin a recording. For a timed recording press this button less than 3 seconds; for a continuous recording, press it longer than 3 seconds.

If you press both transmitter buttons simultaneously, a 1 mV calibration pulse is superimposed on the patient's BEDVIEW lead display at the MULTIVIEW WORKSTATION.

Transmitter LED Error Patterns (Normal Mode)

Transmitter Self-Test - When you first insert a battery into a transmitter, it performs a self-test and, if the test completes successfully, all of the LEDs flash briefly. If an error is detected, all the LEDs flash initially and then alternate with an error-specific pattern.

Any transmitter with a blinking LED pattern not described in the following table and that persists after battery replacement should be returned to your Biomed. The illustration shows the transmitter orientation as you examine the LED patterns.

From	To	Description	Action
●○○○○	○○○○○	Battery critically low. Transmitter operating, but not sending data.	Reinsert or replace battery (page 2-6). If error continues, take transmitter out of service.
●●○○○	○○○○○	Transmitter unable to tune	Reprogram transmitter.
○●●○○	○○○○○	QuickView cable connected	

Note: Error codes display on four LEDs on both four- and five-LED transmitters.

For other possible error messages related to the transmitter that may appear at the MULTIVIEW WORKSTATION see page 2-12.

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Transmitter Operating Modes

Normal Mode

During *Normal* mode the transmitter is connected to a patient and collects data which it relays to the MULTIVIEW WORKSTATION.

Staff Mode

Staff mode may be used to troubleshoot the transmitter or indicate a lead-off condition.

To activate Staff Mode,

- Press the *Staff Alert Button* for more than 3 seconds.

The LEDs may identify the following possible conditions:

Condition	3-/5-/6-Wire Transmitter
Lead(s)-off	The LED(s) corresponding to the detached lead(s) flash(es).
Reference lead-off (or all other leads-off	All LEDs flash simultaneously
Low battery **and** *Lead-off*	The LED patterns alternate for each condition.

NOTES:

1. *Staff* mode lasts for 30 seconds, after which the transmitter returns to *Normal* operating mode.
2. On a 3-lead wire, only 3 LEDs flash when the reference lead is off.

Transmitter Battery

Battery Type	Nominal Voltage	Typical Life	Characteristics
Alkaline/manganese oxide	9 V	2 days, minimum	General purpose battery Good shelf life
Lithium/manganese dioxide	9 V	4 days, minimum	High energy density Excellent shelf life STOP **WARNING**: Use only the brand **ULTRALIFE (model U9VI) lithium battery. Any other lithium battery may present a risk of fire or explosion.**
Zinc/air	8.4 V	4 days, minimum	Manufacturer recommends use within 3 years. Use of this battery requires a ***vented*** battery cover. ⚠ ***CAUTION:*** *Transmitter must be wrapped in plastic if it is worn in the shower so that water does not get in the battery compartment.*

➤ **Note**: Recycle or dispose of batteries in accordance with the directive EC 91/156/EWG or equivalent country-specific regulation.

STOP **WARNING: To avoid explosion, do not recharge or disassemble a battery or dispose of it in fire.**