



Product Specification HST Compass



HST Compass

Device Description Module

The HST Compass is a polysomnography type 3 device intended to perform HST studies. The device contains 2x AC bipolar channels, pressure transducer, integrated RIP interfaces, Oximeter, integrated body position and DC channels.

All of these resources embedded into a single module that will comfortably fit on the patient chest.

General System Requirements

Channels:
Total qty: 13 channels
2x AC Bipolar (up to 5mVpp)
1x Pressure Transducer (Flow and Snore)
2x RIP Channels (Thorax & Abdomen)
1x SpO2
1x Pulse rate
1x Plethysmogram
1x Body position (Accelerometer)
3x DC Channels (-5VDC to +5VDC)
Luminosity sensor
Memory:
Micro SD Card with capability of recording multiples studies
Power requirements:
1x AA 1.5V battery
Possibility to use rechargeable batteries
Enough to record 12 + hours.

Communication
Micro USB (fast speed)
Display:
High resolution display to show the following information:
Study Status
Status Battery Status
Study Duration
Study Traces
Spo2, BPM, Pleth (by Nonin XPOD module)
Oximeter status
RIP Belts status
Cannula status
Current Body Position
Recording Warnings

Characteristics	Models / Values
Study Type:	HST, PSG Type III
Total Channels (Qty.):	13
AC Channels (Qty.):	2
DC Channels (Qty.):	3
Oximeter channels:	3 channels: SpO2, BPM and plethysmography.
Pressure Transducer:	Built -in for HST and PSG 0 to 1 PSI (Snore and Pressure Signals)
Body Position Sensor:	Built-in (Left, Right, Prone, Supine and Stand)
Notch Filter:	50Hz or 60Hz
Sensitivity Range:	1uV to 500uV
Light detector sensor:	Sensor sensible to luminosity changes
Real time clock:	YES
Memory Card:	Micro SD Card
Data Transfer to PC:	Micro SD Card or USB connection
	Current USB 2.0 Full speed
Battery:	AA 1.5V battery
Resolution:	16 Bits
Data flux:	Microprocessor
Sampling rate:	Up to 500Hz
Bandwidth:	0.054 to 100Hz
AC channels Input Range:	5mVpp
DC channels Input Range:	-5Vcc to +5Vcc
AC Channels connector type:	Touch Proof 1.5mm Touch Proof Key for PSG sensor
DC Channels connector type:	P2 - 3.5mm with cable adapter
Cannula connector type:	Luer Lock
Communication connector:	Micro USB
Oximeter connector:	Binder