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PRODUCT CATALOG

Ambulatory Monitoring, Inc.

OUR TRADITION IS INNOVATION

CODE 2

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Motionlogger® Actigraph Systems

AMI offers an Actigraph to fit all budget and protocol requirements. Various model Motionloggers offer applications that include basic sleep estimation to high resolution analog data collection, sleep/wake recording with simultaneous environmental data collection, subjective wearer input features, and comprehensive sleep scoring and sleep distribution viewed on the wrist. Software for device operation and data analysis is available for Windows 2000/XP, and compatible systems; and a selection of special software programs for sleep studies, motor activity, shift work, hyperactivity, periodic leg movement, and activity related studies are available. All models are Lithium battery powered for long use and come with a full two-year warranty.

	Description	Catalog Number	Price
	**MicroMini-Motionlogger® Actigraph** 1" diameter x 0.35" height, weighs 0.6 oz., waterproof (totally submergible for short durations). Non-Volatile 32K memory, 16 Hz sample rate, 2-3 HZ bandwidth, modes of operation: Zero Crossing (ZC) or Proportional Integrating Measure (PIM). 1 minute fixed epoch length yields up to 22 days of recording time per initialization. Fixed, factory replaceable battery (up to 4,000 hour run time; 5 year shelf life). Ask about custom graphics and color bands. Requires Micro Interface/Connector to download data. (24.000C).	24.000	
	**MicroMini-Motionlogger® Actigraph for Rechargeable System** Shower-proof rechargeable model. All features the same as Cat. #24.000 above except after 22 day recording time (when device's memory is full) battery requires re-charging. Unit requires Micro Recharger (24.000RC) as well as Micro Interface/Connector (24.000C) to download data.	24.000SP	
	MicroMini-Motionlogger® Actigraph Watch Bezel Enclosure An aluminum case enclosure (1-3/8" x 1-3/16") that makes the Micro look and feel to the wearer like a standard wristwatch. Completed units have a faux-watch face and weigh just under 1 oz. (28.35gms). Available for either Cat. #24.000 or Cat. #24.000SP described above.	24.000E	
	**MicroMini-Motionlogger® Actigraph with User Battery Exchange Feature** 1-7/16" x 1-7/16" shower-proof version of the MicroMini (weighing 1.1 oz.) encased in an aluminum enclosure that enables the user to exchange the battery after the approximate up to 4,000 hour battery run time. It contains all other features of Cat. #24.000. Requires Micro Interface Connector. (24.000C).	24.000BEF	
	**MicroMini-Motionlogger® Actigraph Interface/Connector with ACT Software** Required for initializing and downloading data from all model MicroMini-Motionloggers. Comes with Loop Tester. (Analysis Software sold separately.)	24.000C	
	**MicroMini-Motionlogger® Actigraph Recharger** Battery recharging system, which allows for recharging of up to 4 Micro units at a time. Full charge requires 36 to 48 hours.	24.000RC	

Ask about CPT reimbursement codes!

Motionlogger® Actigraph Systems

	Description	Catalog Number	Price
	**OCTAGONAL BASIC MOTIONLOGGER** Features include event marker; audible feedback; 2MB memory; 2-3 Hz filter; sensitivity .01G at mid band; Zero Crossing (ZC), Time-Above-Threshold (TAT), ZC/TAT Dual, and Proportional Integrating Measure (PIM) modes of operation and Tri-Mode PZT (ZC, TAT, and PIM, simultaneously); waterproof (shower safe); and easy coin cell battery exchange (60-day battery life) via compartment isolated from sealed interior electronics. Epoch lengths are adjustable from one second to minutes.	26.000	
	**OCTAGONAL BASIC MOTIONLOGGER-L** Contains all of the features of Octagonal Basic Motionlogger (26.000) as well as a photo optic light sensor nominally set up for 1 LUX resolution and 0-4,000 LUX range. (Higher ranges in development).	26.000L	
	OCTAGONAL MOTIONLOGGER SLEEP WATCH Contains event marker; 2MB memory; 2-3 Hz filter; sensitivity .01G at mid-band; selectable epoch lengths; and all of the modes of operation offered in the Octagonal Basic Motionlogger as well as an LCD with time-of-day display that can be configured by the user to either register and display comprehensive sleep scoring (i.e., sleep accumulation in hours and minutes for the last 0-24 hour period [programmable]) and distribution of sleep for the past 0-24 hour period [programmable] OR allow for subjective wearer input/time setting buttons.	26.100	
	**OCTAGONAL MOTIONLOGGER SLEEP WATCH-L** Contains all of the features of the Octagonal Sleep Watch (26.100) as well as a photo optic light sensor nominally set up for 1 LUX resolution and 0-4,000 LUX range. (Higher ranges in development).	26.100L	
	OCTAGONAL MOTIONLOGGER INTERFACE with ACT Operational Software Powered by 9-V Battery This Interface is compatible with all of the above Octagonal model actigraph units; and it comes together with an optional A/C power supply. For initializing and downloading data.	25.111PS	

Family of MicroMini's

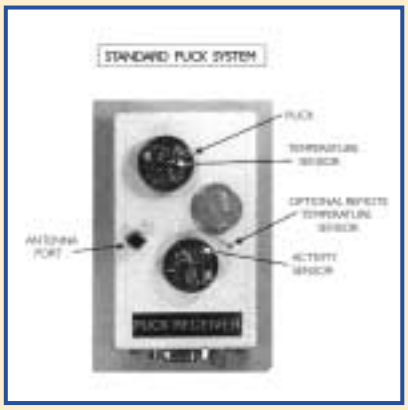
Consisting of single sensors which, together with the MicroMini-Motionlogger activity monitor, allow for multi-parameter data collection by means of a common Interface (Cat. #24.000C) and 3-channel integrated graphic display in ACTION4 software.

	**MicroMini Light Sensor** Similar to the MicroMini-Motionlogger – recording ambient light rather than motion with a 1 part in 256 resolution and a range of 0-1,000 in 4 LUX increments. 32K Memory allows for 22 days of recording with fixed 1-minute epoch lengths.	24.000LS	
	**MicroMini Temperature Sensor** Single sensor to collect skin or ambient temperature 0.1% resolution. 32K Memory allows for 22 days of recording with fixed 1-minute epoch lengths.	24.000TS	
	**MicroMini Sound Sensor** Environmental sound sensor. 32K Memory allows for 22 days of recording with fixed 1-minute epoch lengths.	24.000SS	

Ask about rectangular Mini-Motionloggers, which are still available!

PUCK Telemetry Systems

Description	Catalog Number	Price



PUCK Telemetry System:
Broadcasts data up to 60 feet (20 meters) continuously every 5 seconds to a receiver, which may be connected to a palmtop, laptop, or desktop IBM compatible computer. One minute average data stored to an ACTION4 compatible file. Software allows for recording and display of up to 32 Pucks simultaneously. Available in the following model configurations:

Rectal Temperature Model — **22.000R**
Size: 2.3"x 1.5" x .8". Weight 2 oz. Belt-worn unit using disposable rectal probe. Probe disconnect stops transmission, issues warning in software. User replaceable 1/2 AA lithium battery for two years of continuous operation. Internal antenna and removable 8" whip antenna. Requires Receiver (22.000). Actigraph channel characteristics differ somewhat from the Mini-Motionlogger. Specify the number of channels desired:

Single channel (rectal temperature only)
Two channel (same as above plus ambient temperature or activity)
Three-channel (rectal and ambient temperature plus Actigraph movement detector channel) Not compatible with AMI sleep algorithms.

Skin Temperature Model — **22.000S**
Size: 1.1" diameter by .6". Weight 4oz. Disk-shaped sensor with thermistor placed in center. Fix to skin with bandage or tape. Nine inch flexible antenna. Waterproof: uses 2025 coincell, which is factory replaceable. Specify the number of channels desired:

Single channel (skin temperature only)
Two channel (same as above plus ambient temperature or activity)



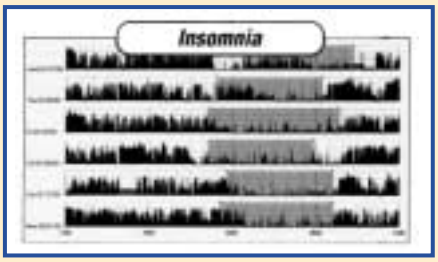
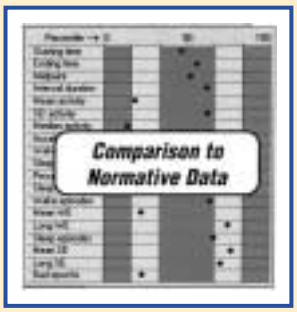
Belt-Worn Telemetric Receiver — **25.00R**
Uses a 9-volt battery. May be worn for post analysis or directly connected to a host computer for real time operation and data analysis. Can store 5 hours 20 minutes of data in 1MB of memory. This Receiver's digital-to-analog converter provides an analog output.



Desktop Telemetric Receiver — **22.000**
Uses 2AA batteries and an 18", collapsible, removable antenna. Serial connection and cable supplied for data storage into a palmtop, laptop or desktop IBM compatible computer.

There is a Motionlogger Actigraph to fit every protocol and budget. Be sure to check our website at www.ambulatory-monitoring.com for the latest news regarding new products!

Analysis Software and Motionlogger® Accessories

Description	Catalog Number	Price
 **Analysis Software Package** consisting of: **Action W-2:** Clinical sleep estimation and database program with periodic leg movement analysis (sold separately @ $450). **ACTION4:** Windows version of ACTION3 circadian rhythm and research software (sold separately @ $650)	**21.123**	
ACTION W-2 UPGRADE: (for existing ACTION-W customers)	**21.AWU**	
Supplement for AW-2: Sadeh Infant Sleep Estimation Algorithm	**21.AW+**	
ACTION4 UPGRADE: (for existing ACTION3 customers)	**21.ACT4U**	
Palm Logger Software Offers simple and complex questionnaires as well as "Smart" event marking (investigators define a pick list of events for their subjects to choose from). Stanford and Epworth sleepiness scales are already included, and custom questionnaires can easily be created for any protocol. All features available on demand or in response to settable alarms. Runs on any Palm device (sold separately).	**21.PALM**	
 **On-Hand PC Software** Simplified version of Palm Logger Software described above with multiple-choice questionnaire, rating scale, or smart event logging. Available on demand or according to settable alarms. (The MicroMini fits on the wristband of this device!)	**21.PC**	

ACCESSORY AND REPLACEMENT ITEMS FOR MOTIONLOGGER® ACTIGRAPHS

Motionlogger Duracell Batteries (set of 6)	**21.196**
Motionlogger SLEEP WATCH Duracell Batteries (set of 6)	**21.195**
Motionlogger One-Piece Velcro Wrist Strap	**21.193**
Motionlogger One-Piece Ribbon Wrist Strap with Adjustable Buckle	**21.194**
One piece, single-use plastic, hospital-type wrist strap (set of one dozen)	**21.192**
Two-Piece buckled, plastic wrist strap (for use with MICRO Mini-Motionlogger with Watch Bezel Enclosure and Octagonal units)	**21.199**
Miniature Coincell Battery Tester Visual indication of battery capacity via LED . 2" x 1-1/4"x 1/2"	**21.197**
Loop Tester Device to test communications between Interface and computer. Identifies integrity of the communication port.	**21.198**
MicroMini Belt-Worn Pouch Black nylon pouch with tamperproof wrap around enclosure for applications where activity measurements of general locomotion are the goal. Trunk activity measurements have been employed in ADHD and energy expenditure studies. Fits all MicroMini models. Also available in a **Large Belt Worn Pouch** size to fit Octagonal and rectangular Motionloggers at **same $10 cost**. Belts sold separately.	**21.199**
Black Nylon Web Belt Contains quick release buckle and fits waists up to 42". Designed for use with the belt-worn pouches described above.	**22.199**
Wrist-Worn Pouch This black nylon pouch is a security wrist band attached to a velcro band for the purpose of adding additional protection to any model Motionlogger. (Also, any Motionlogger can be prewrapped in a helium quality latex balloon to produce a configuration which is fully submersible for long time periods.)	**21.199W**

Our software, supported by NIH funded experts, contains validated algorithms – 88 to 90% sleep estimation algorithm correlated with PSG.

PVT-192 Psychomotor Vigilance Task Monitor

Simple reaction time testing is made easy with the PVT-192. An overwhelming amount of literature has shown that simple reaction time is a convenient and sensitive continuous performance test (CPT) for long-term, large scale testing of awareness, effects of sleep deprivation, and drug effects. The 10-minute PVT test, combined with easy-to-use React software, has proven to be a valuable tool wherever measures of performance or sleepiness are needed. These include the transportation and pharmaceutical industries. Call us for a bibliography.

	Description	Catalog Number	Price
	**PVT-192 Psychomotor Vigilance Task Monitor** Hand-held, self-contained system that stores repetitive reaction time measurements. Features include an LCD display for instructions and programmable analog mood scale; buttons for test selection and a means to stop the clock; microprocessor controlled; solid state storage; initialize with or without PC; multiple subject recording capability; and visual/audio cue. It also features an LED display as a visual cue and display of results at time of testing. The length of each test is programmed as is the range of the inter-stimulus intervals. Includes one charger/adapter, serial cable, and operational and React analysis software for compatible computers. This instrument comes with a full one-year warranty.	35.100	

Environmental Telemeter System

The Environmental Telemeter System consists of two components: a small, multi-channel device called the Environmental Telemeter Transmitter that records environmental parameters and transmits recorded data via telemetry to a companion Environmental Telemeter Receiver, which connects to one's PC. This system provides an ideal addition in settings where the effects of environmental factors are of concern -- for example, nursing home facilities and workplace environments such as nuclear plants and air traffic control stations as well as zoological, botanical, and museum settings.



Environmental Telemeter Transmitter — 20.400

An environmental signal collection device that records information about environmental conditions (i.e., light, temperature, and sound) and telemeters recorded data to a Receiver. Ambient light is calibrated between 0 and 1275 LUX; temperature is calibrated between 50 and 100 degrees; and sound levels are in units of a percentage of full range. Information is packet encoded by unit serial number and broadcast every 2 seconds at an approximate 75 to 100-foot range. The unit is powered by its 9V power supply. 5.63" x 3.25" x 1.5" plastic enclosure.



Environmental Telemeter Receiver — 20.4001

Receives recorded information and can handle data transmitted from up to ten Transmitters broadcasting at 400 MHz. The Receiver comes with software, which recognizes signals from the Transmitter and logs the data to a specific file for each serial number at that particular time. Thresholds may be set within the software for each environmental parameter on each Transmitter so that a visual alarm may be triggered as desired. The Receiver is attached by a serial cable to one's PC and is powered by its own 9V power supply.

Ask about our rental and leasing options and quantity discounts!

Basic Inductotrace® System

The Inductotrace, a respiratory inductive plethysmograph, consists of two elastic bands with insulated wires (Inductobands) wrapped around the rib cage and abdomen and connected to an Oscillator module and Calibration Unit. It measures rib cage and abdomen compartmental volume excursions through changes in self-inductance of the Inductobands. The sum of these two excursions can be calibrated to a known volume with spirobag or spirometer. The sensors have insulated wire for self-induction monitoring with gold plated contacts and come in sizes to fit torsos from premature newborn to super obese subjects. For animal studies we have sizes from kittens to horses.



Calibrator/Demodulator Unit — 10.9000

AC/DC Coupled-Multifunction console: Provides isolated power for transducer-oscillator. Demodulates signals into scaled analog form. Conditions calibration input and displays voltage changes. Scales spirometer values in ml. Includes isolated power supply attenuators and cables. Instructions included. DC Switch — eliminates time constant. 110V-60 HZ.
Size: 12" x 11 3/8" x 5 1/2"
Weight: 10 lbs.



Transducer Oscillator — 10.7000

Energizes Inductobands with radio frequency. Wide range with connector ports for transducer cable and interconnect cable, 3/4" x 1 9/16" x 7/8". For normal size subjects (child, adult).

Transducer Package — 10.5000

This is a complete assembly with all components for operating Inductotrace System. It consists of five (5) sets of Inductoband transducers, three (3) sizes of Retainers, two (2) Transducer/Oscillator cables and one Spirobag. Kindly indicate sizes of transducers desired.
Adult sizes: 66", 54", 48", 40", 36", 32", 28"
Child sizes: 25", 20", 12", 10", 5"



Spirobag for Calibration Procedure — 10.4026

Individual bag holds 800 cc when fully expanded. Kit of 10.

Total for Basic System

Special Model Oscillators

Special Oscillator small volume for neonates, infants and small animals. — **10.7001**

Large Volume Oscillator for extremely large subjects, horses and other large animals. — **10.7002**

Underwater Oscillator specially sealed system with connecting wires for attaching waterproof connectors (not supplied). — **10.7003**

Battery Operated Inductotrace System

The Battery Operated Inductotrace System provides respiratory data acquisition for polysomnography and ambulatory use. Patients connected with Inductobands, from newborn to extra large adult sizes, produce a reliable, high quality respiratory tracing for diagnostic determination of obstructive, central or mixed apnea.



Battery-Operated Inductotrace Interface — 10.4201

Functions as a power supply and demodulates and translates rib cage and abdominal contribution to respiration into analog voltages with fixed ratio (not volume calibrated). Oscillator is built in. Uses one 9 volt battery. Extended cable from the system to the Inductobands. Furnished with a Transducer Package consisting of five (5) sets of Inductobands in sizes of your choice with three retainers, cable and one spirobag.

Additional Options for Portable, Battery Operated System (Interface)

Summing Box — 10.4001

Takes signal from Interface with adjustable control and summing circuit to provide scaling of individual effort and semi-quantitative indication of tidal volume changes if calibrated. Usable with standard polygraph or multi-channel recording unit.

Inquire about the capability for connecting output to serial port from shelf components.

Inductobands, Retainers and Cables for Inductotrace Systems

Description	Catalog Number	Price





Inductobands

Transducer Series 10.5000 is a specially manufactured coil on stretch knit fabric with gold plated connectors, safety tested insulated wires for use with Inductotrace electronics only. Cleaning by gas sterilization recommended. Packaged in sets of two (abdomen/chest). Inductoband stretches for proportional fit to size. Best fit is snug, comfortable and secure. Select best size after measurement of circumference of both chest (under armpit) and abdomen (girth at umbilicus). Two Inductobands must be used. Select appropriate retainer to hold coils in place.

Inductobands

			Price per set
PREMATURE	torso girth 7" to 9"	(17.78-22.86 cm)	10.5005
EXTRA SMALL	torso girth 10" to 15"	(25.40-38.10 cm)	10.5010
INFANT/BABY	torso girth 12" to 17"	(30.48-43.18 cm)	10.5012
TODDLER	torso girth 14" to 20"	(35.56-50.80 cm)	10.5020
CHILD/TEEN	torso girth 18" to 25"	(45.72-63.50 cm)	10.5025
SMALL ADULT	torso girth 22" to 28"	(55.88-71.12 cm)	10.5028
MEDIUM ADULT	torso girth 26" to 32"	(66.04-81.28 cm)	10.5032
REGULAR ADULT	torso girth 28" to 36"	(71.12-91.44 cm)	10.5036
LARGE ADULT	torso girth 32" to 40"	(81.28-101.60 cm)	10.5040
JUMBO ADULT	torso girth 34" to 48"	(86.36-121.92 cm)	10.5048
REGAL ADULT	torso girth 42" to 54"	(106.68-137.16 cm)	10.5054
X-LARGE ADULT	torso girth 48" to 66"	(121.92-167.64 cm)	10.5066

Inductolock

Inductolock Inductobands avoid nocturnal disconnects by use of innovative conductive velcro connection, which provides high fidelity respiratory signals during sleep studies. Inductotrace with Inductolock is highly superior in signal gathering capabilities when compared to strain gauges, bellows or partial enclosure, which depend upon the elasticity of the rubber bands. Inductolock bands are available in sizes same as above at a cost of an additional $12 per set and are specified by the addition of the letter "L" following the catalog number (example: Premature Inductolock. Catalog No. 10.5005L).



Retainers

Cable for Inductolock		10.5100L

Retainers

Calibration accuracy depends on coil placement and retention.
Retainers can be cut with scissors to facilitate comfortable fit.

Small Retainer	for Inductoband 10.5005, 10.5010, 10.5012	10.5220R
Child Retainer	for Inductoband 10.5020, 10.5025	10.5228R
Adult Retainer	for Inductoband 10.5028, 10.5032, 10.5036	10.5236R
Large Retainer	for Inductoband 10.5040, 10.5048	10.5248R
X-Large Retainer	for Inductoband 10.5054, 10.5066	10.5266R

Cables

Basic Transducer Cable — with precision gold plated plugs and pins. Goes from Inductoband to Transducer Oscillator	10.5100
Basic Output cable — Inductotrace Calibrator General Output Cable	10.5110
Inductotrace Oscillator/Calibrator Interconnect Cable	10.5120
Interface General Output Cable	10.4213
Interface to Oscillator Cable	10.4220
Extra Long Interconnect Cable 75'	10.5210X
Extra Long General Output Cable	10.5110X
Extra Long Inductotrace Interface Oscillator Cable 10'	10.4221
Extra Long Output Inductotrace Interface Cable 10'	10.4214
Belt to carry Inductotrace Interface during ambulatory recording (adjustable)	10.4203
Output Cable for Battery-Operated Inductotrace	10.4215

Ask about custom sized Inductobands!

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