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**June 1, 2009**

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**MONARCH INSTRUMENT**

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**ULTRASONIC LEAK DETECTORS ULTRAPRO AG500 SERIES**

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
7830-0901	\$695.00	UltraPro AG500 System		Ultrasonic Leak Detector System includes: Meter, Head Phones, Tone Generator, 9V Batteries, Wave Guide, Contact Probe and Latching Carrying Case.
7830-0902	\$480.00	UltraPro AG500 Kit		Same as 7830-0901 <u>WITHOUT</u> Tone Generator.
7830-0951	\$240.00	Ultrasonic Tone Generator		Tone Generator with 9V Battery.

**REPLACEMENT PARTS**

7830-0953	\$45.00	Wave Guide		Airborne Wave Guide
7830-0954	\$45.00	Contact Probe		Contact Probe
7830-0955	\$56.00	Headphones		Replacement Headphones. 1/8" (3.5 mm) stereo plug, 6 foot cable.
7830-0956	\$55.00	Rubber Holster		Replacement Rubber Holster for UltraPro AG500 Meter.
7830-0957	\$57.00	Latching Carrying Case		Plastic Latching Carrying Case, headphones, tone generator and probes.

**FLEXIBLE FIBERSCOPES Available with internal and external light source**

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
FSI Internal Light Models				
7831-0901	\$340.00	MONARCH FSI-24-6-H		Fiberscope, Internal Light, length 24 inches x 5.8 mm diameter with halogen lamp.
7831-0902	\$340.00	MONARCH FSI-24-10-L		Fiberscope, Internal Light, length 24 inches x 10 mm diameter with LED lamp.
7831-0903	\$420.00	MONARCH FSI-36-6-H		Fiberscope, Internal Light, length 36 inches x 5.8 mm diameter with Halogen Lamp.
7831-0904	\$420.00	MONARCH FSI-36-10-L		Fiberscope, Internal Light, length 36 inches x 10 mm diameter with LED Lamp.
7831-0905	\$610.00	MONARCH FSI-48-6-H		Fiberscope, Internal Light, length 48 inches x 5.8 mm diameter with Halogen Lamp.
7831-0906	\$610.00	MONARCH FSI-48-10-L		Fiberscope, Internal Light, length 48 inches x 10 mm diameter with LED Lamp.

## FSX External Light Models (require external flashlight source)

7831-0910	\$340.00	MONARCH FSX-24-6		Fiberscope, External Light, length 24 inches x 5.8 mm diameter. (requires Xenon flashlight)
7831-0911	\$420.00	MONARCH FSX-36-6		Fiberscope, External Light, length 36 inches x 5.8 mm diameter. (requires Xenon flashlight)
7831-0912	\$610.00	MONARCH FSX-48-6		Fiberscope, External Light, length 48 inches x 5.8 mm diameter. (requires Xenon flashlight)
7831-0913	\$1,000.00	MONARCH FSX-60-6		Fiberscope, External Light, length 60 inches x 5.8 mm diameter. (requires Xenon flashlight)
7831-0914	\$1,157.00	MONARCH FSX-72-6		Fiberscope, External Light, length 72 inches x 5.8 mm diameter. (requires Xenon flashlight)
7831-0915	\$1,313.00	MONARCH FSX-84-6		Fiberscope, External Light, length 84 inches x 5.8 mm diameter. (requires Xenon flashlight)
7831-0916	\$1,495.00	MONARCH FSX-96-6		Fiberscope, External Light, length 96 inches x 5.8 mm diameter. (requires Xenon flashlight)

**ACCESSORIES**

7831-0951	\$59.00	Xenon Flashlight		Compact Xenon Flashlight, Scorpion 85001 with batteries and spare Xenon lamp.
7831-0953	\$20.00	Mirror Attachment, 5.8 mm		Mirror Attachment for 5.8 mm diameter models.
7831-0954	\$20.00	Mirror Attachment, 10 mm		Mirror Attachment for 10 mm diameter models.
7831-0955	\$20.00	Magnet Attachment, 5.8 mm		Magnet for Attachment for 5.8 mm diameter models.
7831-0956	\$20.00	Magnet Attachment, 10 mm		Magnet for Attachment for 10 mm diameter models.

**REPLACEMENT PARTS**

7831-0952	\$8.00	Battery for Scorpion Flashlight		CR123 Lithium replacement Battery for Scorpion Flashlight.
7831-0957	\$8.00	Spare Bulb For FSI Models		Spare Halogen lamp for FSI-H Models only.
7831-0958	\$14.00	Battery for the FSI-H Models		Ultra Photo Lithium Battery (DL223) for FSI-H Models only.

**PORTABLE VIBRATION METER Examiner 1000 Series CE on products indicated**

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6400-010	\$1,800.00	Examiner 1000 System	X	Overall Vibration Meter, electronic stethoscope and <b>OnTime GP Software</b> . Includes: Vibration Meter, batteries, accelerometer and integrated cable, magnetic base, stinger probe, stereo headphones, field carrying case, owners manual and Machinery Data Worksheet.
6400-011	\$1,200.00	Examiner 1000	X	Same as 6400-010 except without OnTime Software
6400-014	\$1,325.00	Examiner 1000 Kit	X	Same as 6400-010 except with <b>OnTime GPLite software on CD</b> . Supports 300 data points. (Requires manual entry of data.)
6480-020	\$695.00	OnTime GP Software		Trending Software for Windows. Unlimited data points, programmable alarms, curve fitting, forecast overall vibration, upgradeable. (Requires manual entry of data.)

**REPLACEMENT PARTS**

6400-012	\$995.00	Examiner 1000 Meter	X	Replacement Vibration Meter ONLY (with batteries).
6480-030	\$400.00	Sensor Pak	X	Accelerometer with integral cable, magnetic base, stinger probe and connecting stud
6480-031	\$255.00	Accelerometer	X	100 mV/g with 6 foot coiled cable, 1/4" x 28 Tapped Hole
1065-1200-007	\$110.00	Replacement cable	X	Replacement 6 foot cable for 0.59" hex accelerometer
6480-035	\$95.00	Replacement cable	X	Replacement 6 foot cable for 0.875" hex accelerometer
6480-032	\$120.00	Magnetic Base		Replacement Magnetic Base for 6480-031 Accelerometer
6480-033	\$2.00	Connecting Stud		Hex Socket/Cup Point Set-Screw, Steel 1/4"-28 thread by 3/8". Adapts Magnetic Base to Accelerometer or Stinger to Accelerometer.
6480-034	\$45.00	Stinger		4.5" Stainless Steel Probe with 1/4" x 28 Tapped Hole.
6480-040	\$60.00	NR Headphones	X	Passive Noise Reduction Headphones, 1/8" (3.5 mm) stereo plug, coiled 8 foot cable.
6480-042	\$45.00	Carrying Case		Holster Style, Padded Ballistic Nylon with Belt Clip and Shoulder Strap.
6480-050	\$26.50	Owner's Manual		User Manual for Examiner 1000 Vibration Meter and Electronic Stethoscope
6480-051	\$10.50	MDWS Book		Machinery Data Worksheet Book with 40 Sheets.
6480-CAL	\$150.00	N.I.S.T. Calibration		N.I.S.T. Traceable Certificate of Calibration / Re-calibration

**PORTABLE TACHOMETERS-TOTALIZER Pocket -Tach Series CE on products indicated.**

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6109-010	\$160.00	Pocket-Tach 99	X	Pocket Tach 99 Basic Tachometer with 12" Reflective Tape
6125-010	\$215.00	Pocket Laser Tach 200	X	Pocket Laser Tachometer/Timer/Totalizer with <b>N.I.S.T. Traceable Certificate of Calibration</b> and 12" of Reflective Tape.
6125-011	\$299.00	Pocket Laser Tach 200 Kit	X	Pocket Laser Tachometer 200 Kit includes Tach, RCA, Carrying Case, <b>N.I.S.T.</b> and 5 foot roll of T-5 Reflective Tape

**ACCESSORIES**

6180-028	\$42.00	EC-25P		25 Foot Extension Cable for remote sensors with male/female 1/8" phone plug connectors.
6180-070	\$13.00	T-5		Reflective Tape - 5 foot roll, 0.5 inch wide
6180-071	\$378.00	T-150		Reflective Tape - 150 foot roll, 0.5 inch wide
6180-079	\$16.00	T-SWP		Waterproof reflective tape (honeycomb pattern) - 5 foot roll, 1 inch wide
6180-074	\$55.00	RCA		Remote Contact Assembly with 6 foot (1.82m) cable includes contact tips (concave and convex) and 10 cm Linear Contact Wheel.
6180-077	\$20.00	CT-0.1M		Replacement 0.1 meter Linear Contact Wheel for use with RCA.
6580-010	\$10.00	CTE		Rubber concave, convex tips and 10 cm Contact Wheel
6580-011	\$45.00	12 inch Contact Wheel		Linear Contact Wheel with 12 inch circumference for use with RCA.
6280-037	\$35.00	CA-4044-6		Cable Assembly, 6 foot, for TTL input/output, 3.5 mm mono phone plug to BNC connector.
6180-078	\$8.50	CT-TIPS		Replacement Tips concave and convex for RCA
6180-047	\$25.00	CC-10		Padded Pouch for all Models above.
6180-048	\$25.00	CC-11		Latching Plastic Carrying Case. Fits all Models above.
6180-CAL	\$95.00	Calibration - N.I.S.T.		N.I.S.T. Traceable Certificate of Calibration / Re-calibration

**SENSORS**

6180-017	\$210.00	MT-190P	X	Magnetic Trigger Sensor/Amplifier with 8 foot cable
6180-020	\$200.00	IRS-P	X	Infrared Sensor with 8 foot cable, 3.5 mm plug and mounting bracket.
6180-057	\$142.00	ROS-P	X	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape
6180-057-25	\$159.00	ROS-P-25	X	Same as 6180-057 with 25 foot cable

**PORTABLE TACHOMETERS-TOTALIZER Phasar-Laser Series N.I.S.T. traceable certificate of calibration included.**

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6130-030	\$310.00	Phasar-Laser	X	Pistol Grip Tachometer, LCD display - 5 to 100,000 RPM, with (4) "AA" Alkaline batteries, 12 inches of reflective tape and N.I.S.T. Traceable Certificate of Calibration.
6130-031	\$445.00	Phasar-Laser Kit 115	X	Phasar-Laser with (4) "AA" NiCad batteries, R-5 (115 Vac) recharger and 5 foot roll of reflective tape in a latching carrying case and N.I.S.T. Traceable Certificate of Calibration.
6130-032	\$455.00	Phasar-Laser Kit 230	X	Same as Phasar-Laser Kit 115, but with R-6 (230 Vac) recharger
6130-033	\$350.00	Phasar-Laser PAC	X	Phasar-Laser with 5 foot roll of reflective tape (4) "AA" Alkaline batteries, padded carry case and N.I.S.T. Traceable Certificate of Calibration.
6130-040	\$365.00	Phasar-Laser-R	X	Pistol Grip Tachometer, LCD display - 5 to 100,000 RPM, with connector for optional ROS-P sensor, (4) "AA" Alkaline batteries, 12 inches of reflective tape and N.I.S.T. Traceable Certificate of Calibration.
6130-041	\$640.00	Phasar-Laser-R Kit 115	X	Phasar-Laser R with (4) "AA" NiCad batteries, R-5 (115 Vac) recharger, ROS-P sensor and 5 foot roll of reflective tape in latching carrying case and N.I.S.T. Traceable Certificate of Calibration.
6130-042	\$650.00	Phasar-Laser-R Kit 230	X	Same as Phasar-Laser-R Kit 115, but with R-6 (230 Vac) recharger

**ACCESSORIES**

6180-028	\$42.00	EC-25P		25 Foot Extension Cable for remote sensors with male/female 1/8" phone plug connectors.
6180-041	\$25.00	CC-1		Nylon Padded Carrying Case for Phasar-Laser
6180-042	\$75.00	CC-2		Plastic Latching Carrying Case for Phasar-Laser
6180-061	\$48.00	R-5B	X	Recharger, 115 Vac - 50/60 Hz, with 4 "AA" NiCad batteries
6180-063	\$58.00	R-6B	X	Recharger, 230 Vac - 50/60 Hz, with 4 "AA" NiCad batteries
6180-064	\$21.00	B-4		Four "AA" Rechargeable NiCad Batteries
6180-070	\$13.00	T-5		Reflective Tape - 5 foot roll, 0.5 inch wide
6180-071	\$378.00	T-150		Reflective Tape - 150 foot roll, 0.5 inch wide
6180-079	\$16.00	T-SWP		Waterproof reflective tape (honeycomb pattern) - 5 foot roll, 1 inch wide
6180-CAL	\$95.00	Calibration - N.I.S.T.		N.I.S.T. Traceable Certificate of Calibration / Re-calibration

**SENSORS**

6180-017	\$210.00	MT-190P	X	Magnetic Trigger Sensor/Amplifier with 8 foot cable
6180-020	\$200.00	IRS-P	X	Infrared Sensor with 8 foot cable, 3.5 mm plug and mounting bracket.
6180-057	\$142.00	ROS-P	X	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape
6180-057-25	\$159.00	ROS-P-25	X	Same as 6180-057 with 25 foot cable
6180-902	\$165.00	ROSM-5P	X	Remote Optical Sensor, modulated, 8 foot cable, mounting bracket and 12 inches of reflective tape

## SELF-POWERED SENSORS (TTL pulse output)

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6150-020	\$375.00	SPSR-115/230	X	SPSR interface Module, PSC-2U, ROS-P and 12 inches of T-5 tape.
6150-021	\$240.00	SPSR-IM	X	Interface Module with PSC-2U 115/230 Power Supply/Recharger.
6180-022	\$1,275.00	SLS-115/230	X	Smart Laser Sensor with 115/230 Vac PR Universal recharger, includes: (1) SLS-CA-BNC output cable
<b>ACCESSORIES</b>				
6180-027	\$25.00	CA-DCSPSR		6 Foot Cable Assembly with Lighter Plug for 9-15 VDC operation of SPSR-IM.
6180-029	\$189.00	ROLS-P	X	Remote Optical Laser Sensor with 8 foot cable, 1/8" (3.5mm) plug connector, mounting bracket with jam nuts and 12 inches of T-5 tape.
6180-057-25	\$159.00	ROS-P-25	X	Remote Optical Sensor with 25 foot cable, mounting bracket and 12 inches of reflective tape.
6180-017	\$210.00	MT-190P	X	Magnetic Trigger Sensor/Amplifier with 8 foot cable.
6180-020	\$200.00	IRS-P	X	Infrared Sensor with 8 foot cable, 3.5 mm plug and mounting bracket.
6180-028	\$42.00	EC-25P		25 Foot Extension Cable for remote sensors with male/female 1/8" plug connectors.
6180-023	\$32.00	SLS-CA-BNC		DIN Output Cable, 8 feet (2.5m) with BNC plug.
6180-024	\$32.00	SLS-CA-W		DIN Output Cable, 8 feet (2.5m) with tinned wire termination.
6180-025	\$32.00	SLS-CA-P		DIN Output Cable, 8 feet (2.5m) with 1/8 inch (3.5 mm) mono plug.
6180-026	\$32.00	SLS-CA-RS232		DIN Output Cable, 8 feet (2.5m) with DB9 (9-pin) connector for RS232.
6180-070	\$13.00	T-5		Reflective Tape - 5 foot roll, 0.5 inch wide.
6180-071	\$378.00	T-150		Reflective Tape - 150 foot roll, 0.5 inch wide.
6180-079	\$16.00	T-5WP		Waterproof Reflective Tape (honeycomb pattern) - 5 foot roll, 1 inch wide.
<b>REPLACEMENT PARTS</b>				
6280-022	\$30.00	PSC-2U	X	SPSR Universal Power Supply/Recharger (115 to 230 Vac) with USA, EURO, UK, AUS adapter plugs.
6280-017	\$70.00	PR Universal	X	SLS Recharger, 100-240 Vac, 50-60 Hz, with USA, EURO, UK, AUS adapter plugs.
6180-066	\$22.00	BP-R		Replacement Battery Pack (NiMH) for SPSR-IM
6180-057	\$142.00	ROS-P	X	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape.

## PANEL TACHOMETERS-TOTALIZERS ACT-1B Series

To specify your ACT1B, select options from the list below. Insert your selection in the boxes above and the cost of each option in the boxes to the left. Analog output, full scale setting and pulse input ranges selected below must be factory pre-set or can be user configured with the optional USB cable and PM Remote software (see accessories below).

Base Price  
\$249.00

ACT1B -  -  -  -  -

Input Power

1	100 to 240 Vac 50/60Hz	\$ N/C
2	Isolated 12Vdc +/- 10%	\$ 70.00
3	Isolated 24Vdc +/- 10%	\$ 75.00

Pulse Output

0	No	\$ N/C
1	Yes	\$ 25.00

Sensor Power

1	12Vdc	\$ N/C
2	5Vdc	\$ N/C
3	24Vdc	\$ 25.00

Analog Output

0	None	\$ N/C
1xxxxx	0 to 5Vdc Non-isolated (xxxxxx = full scale)	\$ 55.00
2xxxxx	4 to 20ma Non-isolated (xxxxxx = full scale)	\$ 60.00
3xxxxx	0 to 5Vdc Isolated (xxxxxx = full scale)	\$ 100.00
4xxxxx	4 to 20ma Isolated (xxxxxx = full scale)	\$ 105.00

Pulses per Revolution (input)

xxx	001 to 999	\$ N/C
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### Total ACT1B Price

Example Model Number: ACT1B operating from AC input power with pulse output, sensor supply of 12Vdc, and Non-isolated 4-20mA output with full scale output scale set at 10,000RPM and 60 pulses per revolution would be Model #: **ACT1B-1-1-1-210000-060**  
Total Price: \$334.00

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
<b>ACCESSORIES</b>				
6180-031	\$99.00	USB Programming Cable and Software (supplied on CD)	X	3 ft. USB Programming Cable and Windows™ compatible PM Remote Software Package. Allows user configuration of operation mode, analog output scaling, decimal places, display update rate and pulses per input. View real time data in digital format and/or through Microsoft® Excel.
1064-2022-001	\$1.00	WIRE PER FOOT		3-wire shielded Sensor Cable, bulk lengths for any sensor. Specify Total Length.
6180-070	\$13.00	T-5		Reflective Tape - 5 foot roll, 0.5 inch wide
6180-079	\$16.00	T-5WP		Waterproof reflective tape (honeycomb pattern) - 5 foot roll, 1 inch wide
6180-CAL	\$95.00	Calibration - N.I.S.T.		N.I.S.T. Traceable Certificate of Calibration / Re-calibration
<b>SENSORS</b>				
6180-030	\$187.00	ROLS-W	X	Remote Optical Laser Sensor with 8 foot cable, 4 tinned leads, mounting bracket with jam nuts and 12 inches of T-5 tape.
6180-056	\$140.00	ROS-W	X	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape
6180-057-25	\$159.00	ROS-P-25	X	Same as 6180-057 with 25 foot cable
6180-058-25	\$299.00	ROS-HT-W-25		Same as 6180-056 for high temperature applications to 257°F (125°C) with 25 foot cable
6180-013	\$105.00	P5-11	X	Proximity Sensor with 6 foot cable
6180-018	\$210.00	MT-190W	X	Magnetic Trigger Sensor/Amplifier with 8 foot cable
6180-012	\$115.00	M-190W	X	Magnetic Sensor with 8 foot cable
6180-019	\$295.00	GE-200		Electromagnetic Inductive Sensor and amplifier with 23 feet of cable. Combine with ACT-3 for Gasoline Engine Tachometer.
6180-021	\$200.00	IRS-W	X	Infrared Sensor with 8 foot cable, tinned wires and mounting bracket.

**PANEL TACHOMETERS-TOTALIZERS ACT-2A and ACT-3 Series**

ITEM NUMBER	PRICE	MODEL	CE DESCRIPTION
6140-020	\$390.00	ACT-2A/115	Tachometer/Totalizer - 5 to 999,990 RPM - 1 to 99,999 counts, with programmable push button for single or multiple pulses/rev. and 115 Vac power.
6140-022	\$390.00	ACT-2A/230	Same as ACT-2A/115, but with 230 Vac power
6140-023	\$390.00	ACT-2A/12	Same as ACT-2A/115, but with 12 Vdc power
6140-030	\$575.00	ACT-3/115	Tach/Totalizer - 5 to 999,990 RPM - 1 to 99,999 counts, with programmable push button for single or multiple pulses/rev., AO and IO w/offset, 12 bit A/D, PO, TTL, 2 alarms, RS232 and 115 Vac power.
6140-032	\$580.00	ACT-3/230	Same as ACT-3/115, but with 230 Vac power.
6140-033	\$575.00	ACT-3/12	Same as ACT-3/115, but with 12 Vdc power.

**SENSORS Remove any plug (P) to create a tinned wire (W) sensor. W = 3 tinned wire termination. P= 3.5 mm phone plug termination.**

ITEM NUMBER	PRICE	MODEL	CE DESCRIPTION
6180-056	\$140.00	ROS-W	X Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape
6180-057	\$142.00	ROS-P	X Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape, 1/8" (3.5mm) phone plug connector
6180-057-25	\$159.00	ROS-P-25	X Same as 6180-057 with 25 foot cable
6180-029	\$189.00	ROLS-P	X Remote Optical Laser Sensor with 8 foot cable, 1/8" (3.5mm) phone plug connector, mounting bracket with jam nuts and 12 inches of T-5 tape.
6180-030	\$187.00	ROLS-W	X Remote Optical Laser Sensor with 8 foot cable, 3 tinned leads, mounting bracket with jam nuts and 12 inches of T-5 tape.
6180-902	\$165.00	ROSM-5P	X Same as 6180-057, <b>Modulated</b> with 1/8" (3.5mm) phone plug termination.
6180-903	\$182.00	ROSM-5W	X <b>Modulated</b> , 22 foot cable with tinned wire termination (excludes mounting bracket and jam nuts).
6180-058-25	\$299.00	ROS-HT-W-25	Same as 6180-056 for high temperature applications to 257°F (125°C) with 25 foot cable.
6180-020	\$200.00	IRS-P	X Infrared Sensor with 8 foot cable, 3.5 mm plug and mounting bracket.
6180-021	\$200.00	IRS-W	X Infrared Sensor with 8 foot cable, tinned wires and mounting bracket.
6180-012	\$115.00	M-190W	X Magnetic Sensor with 8 foot cable
6180-018	\$210.00	MT-190W	X Magnetic Trigger Sensor/Amplifier with 8 foot cable with tinned wire termination.
6180-017	\$210.00	MT-190P	X Magnetic Trigger Sensor/Amplifier with 8 foot cable and 1/8" (3.5mm) phone plug connector.
6180-013	\$105.00	P5-11	X Proximity Sensor with 6 foot cable.
6180-019	\$295.00	GE-200	Electromagnetic Inductive Spark Plug Sensor and amplifier with 23 feet of cable.

**\*\*Remove any plug (P) to create a tinned wire (W) sensor. W = 3 tinned wire termination. P= 3.5 mm phone plug termination\*\***

**ACCESSORIES**

1064-2022-001	\$1.00	WIRE PER FOOT	3-wire shielded Sensor Cable, bulk lengths for any sensor. Specify Total Length.
6180-070	\$13.00	T-5	Reflective Tape 5 foot roll, 0.5 inch wide
6180-079	\$16.00	T-5WP	Waterproof reflective tape (honeycomb pattern) - 5 foot roll, 1 inch wide

**REPLACEMENT PARTS**

4180-403	\$95.00	Mag Amp	Amplifier for MT-190P Sensor, 3 foot cable and 3.5 mm phone plug.
4180-404	\$95.00	Mag Amp	Amplifier for MT-190W or GE-200 Sensor, 3 tinned wire termination.
4180-132	\$60.00	CAGE200	Cable, 15 feet, for GE-200 Sensor.
1053-0189-001R	\$3.00	ROS-NUT	M16 jam nut
1052-4350-112R	\$3.00	ROS-MNT	90° slotted aluminum mounting bracket
1053-0190-001R	\$3.00	ROLS-NUT	M18 jam nut
1052-4450-110R	\$3.00	ROLS-MNT	90 slotted aluminum mounting bracket

**PORTABLE STROBOSCOPES Palm Strobe x Series. N.I.S.T. traceable certificate of calibration included.**

ITEM NUMBER	PRICE	MODEL	CE DESCRIPTION
6205-050	\$540.00	PALM STROBEx 115/230	X Strobe, Battery, PSC-2U 115/230 Vac Recharger
6205-051	\$665.00	PALM STROBEx Pak 115/230	X Strobe, Battery, PSC-2U 115/230 Vac Recharger, Spare Battery and Holster
6205-052	\$645.00	PALM STROBEx Kit 115/230	X Strobe, Battery, PSC-2U 115/230 Vac Recharger, Spare Lamps and Latching Carrying Case
6205-053	\$770.00	PALM STROBEx Deluxe Kit 115/230	X Strobe, Battery, PSC-2U 115/230 Vac Recharger, Spare Lamps & Battery, Holster & Latching Carrying Case

**ACCESSORIES**

6280-032	\$36.00	PS Input Cable	TTL Pulse Input Cable, 6 Feet (1.82 m) - 1/8" Mono Plug to BNC male Connector
6280-037	\$35.00	PS Output Cable	6 foot TTL Output Cable, 1/8" Mono Phone Plug to BNC Connector (CA-4044-6)
6280-043	\$27.00	PS Holster	Holster With Belt Loop and Pouch

**REPLACEMENT PARTS**

6280-022	\$30.00	PSC-2U	X Universal Recharger, 115/230 Vac with USA, U.K. AUS, Euro Adapter Plugs
6280-026	\$103.00	PSx Battery	X Rechargeable NiMH Battery Pack
6280-028	\$66.00	L-1905 (Twin Pack)	(2) Replacement Xenon Lamps
6280-042	\$42.00	CC-9	Latching Carrying Case for Strobe and All Accessories

**PORTABLE STROBOSCOPES Nova-Strobe x Series. N.I.S.T. traceable certificate of calibration included on dax, dbx models only**

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6206-010	\$299.00	Nova-Strobe bax 115		Basic Stroboscope, mains powered - 30-10,000 FPM with 115 Vac power
6206-011	\$422.00	Nova-Strobe bax Kit 115		Same as 6206-010 with Spare Lamp in Latching Carrying Case
6206-012	\$329.00	Nova-Strobe bax 230	X	Basic Stroboscope, mains powered - 30-10,000 FPM with 230 Vac power
6206-013	\$452.00	Nova-Strobe bax Kit 230	X	Same as 6206-012 with Spare Lamp in Latching Carrying Case
6207-012	\$415.00	Nova-Strobe bbx 115/230	X	Basic Stroboscope, battery powered - 30-10,000 FPM with PSC-2U (115/230 Vac) recharger
6207-013	\$538.00	Nova-Strobe bbx Kit 115/230	X	Same as 6207-012 with Spare Lamp in Latching Carrying Case
6203-010	\$475.00	Nova-Strobe dax 115		Deluxe Stroboscope, mains powered - 30-20,000 FPM with 115 Vac power
6203-011	\$598.00	Nova-Strobe dax Kit 115		Same as 6203-010, with Spare Lamp in Latching Carrying Case
6203-012	\$525.00	Nova-Strobe dax 230	X	Deluxe Stroboscope, mains powered - 30-20,000 FPM with 230 Vac power
6203-013	\$648.00	Nova-Strobe dax Kit 230	X	Same as 6203-012, with Spare Lamp in Latching Carrying Case
6204-012	\$530.00	Nova-Strobe dbx 115/230	X	Deluxe Stroboscope, battery powered - 30-20,000 FPM with PSC-2U (115/230 Vac) recharger
6204-013	\$653.00	Nova-Strobe dbx Kit 115/230	X	Same as 6204-012 with Spare Lamp in Latching Carrying Case

**REPLACEMENT PARTS**

6280-030	\$45.00	L-1903		Stroboscope bax, bbx, dax & dbx Spare Lamp
6280-022	\$30.00	PSC-2U	X	Universal Recharger, 115/230 Vac with USA, U.K. AUS, Euro Adapter Plugs

**ACCESSORIES**

6280-040	\$78.00	CC-7		Plastic Latching Carrying Case
6280-041	\$25.00	SPC-1		Splashproof Protective Cover for Nova-Strobe battery-powered Stroboscopes
6280-034	\$12.00	C-4027		Set (2) mating 1/8" stereo plugs (to provide TTL signal and sensor power)
6280-037	\$35.00	CA-4044-6		6 foot TTL input/output cable, 1/8" mono phone plug to BNC connector
6280-038	\$16.00	CA-4045-6		6 foot TTL input/output cable, 1/8" mono phone plug to 1/8" mono phone plug
6280-CAL	\$95.00	CAL-N.I.S.T.		N.I.S.T. Traceable Certificate of Calibration / Re-calibration

**SENSORS**

6180-057	\$142.00	ROS-P	X	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape, 1/8" (3.5mm) phone plug connector
6180-029	\$189.00	ROLS-P	X	Remote Optical Laser Sensor with 8 foot cable, 1/8" (3.5mm) plug connector, mounting bracket with jam nuts and 12 inches of T-5 tape.
6180-057-25	\$159.00	ROS-P-25	X	Same as 6180-057 with 25 foot cable
6180-020	\$200.00	IRS-P	X	Infrared Sensor with 8 foot cable, 3.5 mm plug and mounting bracket.
6180-017	\$210.00	MT-190P	X	Magnetic Trigger Sensor/Amplifier with 8 foot cable

**PORTABLE STROBOSCOPES Phaser-Strobe x Series. N.I.S.T. traceable certificate of calibration included.**

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6210-020	\$725.00	Phaser-Strobe pbx 115/230	X	Stroboscope - 30-50,000 FPM with PSC-pbxU (115/230 Vac) Power Supply/Recharger
6210-021	\$848.00	Phaser-Strobe pbx Kit 115/230	X	Same as 6210-020 with Spare Lamp in Latching Case

**REPLACEMENT PARTS**

6280-030	\$45.00	L-1903		Digital Stroboscope pbx Spare Lamp
6280-024	\$110.00	PSC-pbxU	X	Universal Power Supply/Recharger, 115/230 Vac with USA and Euro adapter cables

**ACCESSORIES**

6180-070	\$13.00	T-5 Tape		Reflective Tape - 5 foot roll, 0.5 inch wide
6280-040	\$78.00	CC-7		Plastic Latching Carrying Case
6280-041	\$25.00	SPC-1		Splashproof Protective Cover for Nova-Strobe battery-powered Stroboscopes
6280-034	\$12.00	C-4027		Set (2) mating 1/8" stereo plugs (to provide TTL signal and sensor power)
6280-037	\$35.00	CA-4044-6		6 foot TTL input/output cable, 1/8" mono phone plug to BNC connector
6280-038	\$16.00	CA-4045-6		6 foot TTL input/output cable, 1/8" mono phone plug to 1/8" mono phone plug
6280-CAL	\$95.00	CAL-N.I.S.T.		N.I.S.T. Traceable Certificate of Calibration / Re-calibration

**SENSORS**

6180-029	\$189.00	ROLS-P	X	Remote Optical Laser Sensor with 8 foot cable, 1/8" (3.5mm) plug connector, mounting bracket with jam nuts and 12 inches of T-5 tape.
6180-057	\$142.00	ROS-P	X	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape, 1/8" (3.5mm) phone plug connector
6180-057-25	\$159.00	ROS-P-25	X	Same as 6180-057 with 25 foot cable
6180-020	\$200.00	IRS-P	X	Infrared Sensor with 8 foot cable, 3.5 mm plug and mounting bracket.
6180-017	\$210.00	MT-190P	X	Magnetic Trigger Sensor/Amplifier with 8 foot cable

## PORTABLE STROBOSCOPES Vibration Battery Strobe (vbx) Series

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6220-031	\$2,300.00	vbx Strobe CSI Kit 115/230 for (Model 2120 only)	X	Vibration Stroboscope - 30-50,000 FPM, with PSC-pbxU Power Supply/Recharger, 115/230 Vac, spare lamp and CSI 2120 data collector interface cable with CA-4046-6 Accelerometer cable in latching carrying case
6220-034	\$2,600.00	vbx Strobe CSI Kit 115/230 for (Model 2130 only)	X	Vibration Stroboscope - 30-50,000 FPM, with PSC-pbxU Power Supply/Recharger, 115/230 Vac, spare lamp and CSI 2130 data collector interface cable with CA-4046-6 Accelerometer cable in latching carrying case
6220-032	\$2,300.00	vbx Strobe SKF Kit 115/230 for (CMVA Models Only)	X	Vibration Stroboscope - 30-50,000 FPM, with PSC-pbxU Power Supply/Recharger, 115/230 Vac, spare lamp and SKF CMVA data collector interface cable with CA-4046-6 Accelerometer cable in latching carrying case
6220-033	\$2,195.00	vbx Strobe Kit 115/230 (without interface cables)	X	Vibration Stroboscope - 30-50,000 FPM, with PSC-pbxU Power Supply/Recharger, 115/230 Vac, spare lamp with CA-4046-6 Accelerometer cable in latching carrying case

### ACCESSORIES

6280-040	\$78.00	CC-7		Plastic Latching Carrying Case
6280-024	\$110.00	PSC-pbxU	X	Universal Power Supply/Recharger, 115/230 Vac with USA and Euro adapter cables
6280-030	\$45.00	L-1903	X	Digital Stroboscope vbx Spare Lamp
6280-047	\$46.00	CA-4046-6	X	6 foot Accelerometer input cable, 1/8 (3.5mm) inch phone plug to BNC with BNC union connector
4280-150	\$175.00	Interface Cable SKF CMVA		Vibration Stroboscope to SKF CMVA Series Data Collectors
4280-151	\$175.00	Interface Cable CSI 2120		Vibration Stroboscope to CSI 2120 Seires Data Collectors
4280-152	\$336.00	Interface Cable CSI 2130		Vibration Stroboscope to CSI 2130 Seires Data Collectors
6280-CAL	\$95.00	CAL-N.I.S.T.		N.I.S.T. Traceable Certificate of Calibration / Re-calibration

## PORTABLE STROBOSCOPE REPLACEMENT PARTS

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6280-039	\$50.00	NS Plastic Replacement Kit		All Nova-Strobes MANUFACTURED PRIOR to NOV 2003. Includes: Right Case Half, Left Case Half, Trigger Switch and Black Tuning Knob with set screw. (Updated design).
1005-3102-003R	\$10.00	Trigger Switch		For All Nova-Strobes MANUFACTURED AFTER NOV. 2003
1055-4241-112R	\$15.00	Right Case Half		Plastic for All Nova-Strobes MANUFACTURED AFTER NOV. 2003
1055-4242-112R	\$15.00	Left Case Half (knob side)		Plastic for All Nova-Strobes MANUFACTURED AFTER NOV. 2003
3055-4243-001R	\$20.00	Reflector Housing		Plastic for All Nova-Strobes with labels
1052-4240-113R	\$20.00	Parabolic Reflector		Metal for All Nova Strobes, PB and VB Models
1052-4245-212R	\$10.00	Front Lens (without holes)		Plastic, for BB, DB, DB Plus, VB and PB Models
1052-4248-111R	\$13.00	Front Lens (with holes)		Plastic lens, for DA, DA Plus and BA Models.
4280-136	\$10.00	Black Tuning Knob		Plastic tuning knob, for All Nova-Strobes MANUFACTURED AFTER NOV. 2003
6280-030	\$45.00	L-1903		Digital Stroboscope Spare Lamp for DA+, DB+, PB, VB, VBX, BAX, BBX, DAX, DBX and PBX models.
6280-031	\$27.00	L-1902		Basic Stroboscope Spare Lamp for older BA, BB, AA and AB Models.
6180-060	\$27.00	R-5	X	Recharger, 115 Vac - 50/60Hz for BB Model
6180-062	\$37.00	R-6	X	Recharger, 230 Vac - 50/60Hz for BB Model
6280-011	\$47.00	R-115	X	Recharger, 115 Vac - 50/60Hz for DB Plus Models
6280-014	\$57.00	R-230	X	Recharger, 230 Vac - 50/60Hz for DB Plus Models
6280-022	\$30.00	PSC-2U	X	Universal Recharger, 115/230 Vac with USA, U.K. AUS, Euro Adapter Plugs for psx, bbx, dbx (replaces
6280-035	\$60.00	Set of (3) Internal Batteries	X	Rechargeable Lead-Acid Batteries for AB, BB, DB, DB Plus, PB and VB Nova-Strobes.
6280-046	\$62.00	Internal Battery Pack	X	Rechargeable NiMH Battery Pack for BBX, DBX, PBX and VBX models.
1052-6103-110R	\$3.00	Black Rubber Cover		Palm Strobe Black Rubber Reflector Cover
1052-6104-110R	\$2.00	Palm Strobe Lens		Front Lens for Palm Strobe
6280-026	\$103.00	Palm Strobe Battery Pack	X	Palm Strobe battery pack (for use with Red Palm Strobe and Blue Palm Strobe x) <b>REQUIRES PSC-2U Recharger</b>

## PERMANETLY MOUNTED STROBOSCOPE Machine Vision Stroboscopes

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
6250-X1200	\$2,250.00	X-1200	X	<b>High Intensity, Machine Vision Strobe for use in Fiber Optic Applications.</b> Xenon Lamp with 43 watts, universal power supply (100-240 Vac, 50/60 Hz), 9-Pin D-connector for external trigger. Steel Case and internal power supply. Flash Rate: 2700 FPM, (0-45 Hz), Photometric Light Output: 31 lumens-sec., Flash Energy: 1.0 to 2.2 joules max.
6250-X400	\$2,000.00	X-400	X	<b>High Intensity, Machine Vision Strobe for use in Fiber Optic Applications.</b> Same as 6250-X1200 except: Flash rate 8100 FPM (0-135 Hz), Photometric Light Output: 12 lumen-sec., Flash Energy: 0.3 to 0.7 joules.

### SPARE LAMPS AND ACCESSORIES

6280-059	\$490.00	MVS-9000	X	Strobe Lamp Replacement for the Machine Vision X-Series Stroboscopes
6280-060	\$100.00	MVS-22		Nosepiece for Machine Vision X-Series Strobes, fits FOSTEC 1.0" I.D. Fiber Optic Bundle
6280-061	\$100.00	MVS-23		Nosepiece for Machine Vision X-Series Strobes, fits FOSTEC 0.72" I.D. Fiber Optic Bundle
6280-062	\$100.00	MVS-24		Nosepiece for Machine Vision X-Series Strobes, fits FOSTEC 0.59" I.D. Fiber Optic Bundle
6280-139	\$35.00	Trigger Cable		Interface cable between Nova-Strobe and Machine Vision X-Series Strobe, TTL input to X-Series Strobe

# DATA CHART 1250 PAPERLESS RECORDER

To Specify your DataChart 1250, select options from the list below. Insert your selection in the boxes above and the cost of each option in the boxes to the left. Add the base price to the option pricing for the total.

MODEL NUMBER DC1250 -    Example Model #: DC1250 – U11 = \$ 764.00

Calculate Price

↓

**\$599.00** Base Instrument

Power

**U Universal AC Adaptor** \$ N/C  
100 - 240 Vac wall adapter with Interchangeable Plug Set. (North American, U.K., AUS, and Europe).

**D DC Input Power: 12 - 24Vdc input power, isolated.** \$ 25.00

Rechargeable Battery

**0 None** \$ N/C

**1 Rechargeable Battery** NiMhi Battery pack will operate recorder for up to 6 hours in the event of a power loss. Only available with power option U above. \$ 100.00

Communications

**0 None** \$ N/C

**1 USB\*** Mini front accessible USB 2.0 port for downloading data from memory card directly to PC. Includes USB cable. \$ 65.00

**2 Ethernet\*** 10/100BaseT Ethernet, rear access RJ45 connector. Allows network access to data card files. \$ 100.00

\* Requires Navigator Software

**Total DataChart 1250 Price**

ITEM NUMBER	PRICE	MODEL	CE	DESCRIPTION
<b>ACCESSORIES</b>				
	\$99.00	<b>Navigator</b>		Windows Compatible Software for graphic analysis, printing, transfer and export
	N/C	<b>Navigator Lite</b>		Lite version allows viewing of data in table format and exporting (included with recorder)
	\$50.00	<b>CFCR</b>	X	Compact Flash Card Reader, USB 2.0 compatible
	\$10.00	<b>MAS250R</b>		250 ohm precision resistor for current inputs, 0.1%, 0.5 watt
	\$189.00	<b>NEMA 4X Kit</b>		Pre-Cut NEMA 4X hinged enclosure with SPC-1250 clear removable splash proof cover
	\$40.00	<b>SPC-1250</b>		NEMA 4/IP65 clear removable splash proof cover
<b>COMPACT FLASH CARDS</b>				
	\$40.00	<b>MC256MBCF</b>	X	256 Megabyte Compact Flash Card
	\$60.00	<b>MC512MBCF</b>	X	512 Megabyte Compact Flash Card
	\$75.00	<b>MC1024MBCF</b>	X	1 Gigabyte Compact Flash Card
	\$100.00	<b>MC2048MBCF</b>	X	2 Gigabyte Compact Flash Card
<b>SENSORS (PLUG AND PLAY)</b>				
	\$99.00	<b>THS-W</b>		Temperature/Humidity Sensor with 8 foot cable
	\$140.00	<b>ROS-W</b>	X	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape
	\$159.00	<b>ROS-P-25</b>	X	Remote Optical Sensor with 8 foot cable, mounting bracket and 12 inches of reflective tape, 1/8" (3.5mm) phone plug connector
	\$187.00	<b>ROLS-W</b>	X	Remote Optical Laser Sensor with 8 foot cable, 4 tinned leads, mounting bracket with jam nuts and 12 inches of T-5 tape.
	\$210.00	<b>MT-190W</b>	X	Magnetic Trigger Sensor/Amplifier with 8 foot cable
	\$200.00	<b>IRS-W</b>	X	Infrared Sensor with 8 foot cable tinned wires and mounting bracket
<b>CALIBRATION</b>				
	\$125.00	<b>NIST-1250</b>		N.I.S.T. Traceable Certificate of Calibration with documentation
<b>REPLACEMENT PARTS</b>				
	\$40.00	<b>PSC-2UW</b>	X	Standard AC adapter, 100-240Vac wall adapter with Interchangeable plug set

**EXTENDED WARRANTY AVAILABLE FOR ALL PRODUCTS Except Sensors**

To select a 2-Year Extended Warranty locate the PRICE OF THE INSTRUMENT in this Price List and use the corresponding ITEM NO. below.

Price of Instrument	Warranty Item No.	Warranty Price	DESCRIPTION
<\$200	5000-600	\$28.00	2-year Extended Warranty combined with 1-year Standard Warranty for 3 years of protection.
<\$400	5000-601	\$56.00	2-year Extended Warranty combined with 1-year Standard Warranty for 3 years of protection.
<\$600	5000-602	\$84.00	2-year Extended Warranty combined with 1-year Standard Warranty for 3 years of protection.
<\$1,000	5000-603	\$140.00	2-year Extended Warranty combined with 1-year Standard Warranty for 3 years of protection.
<\$1,500	5000-604	\$210.00	2-year Extended Warranty combined with 1-year Standard Warranty for 3 years of protection.
<\$2,000	5000-605	\$280.00	2-year Extended Warranty combined with 1-year Standard Warranty for 3 years of protection.
<\$2,500	5000-606	\$350.00	2-year Extended Warranty combined with 1-year Standard Warranty for 3 years of protection.

**TERMS and CONDITIONS** Ordering Information, Return Policy

**Placing An Order:** Orders may be placed with your Monarch Instrument Distributor or directly with Monarch Instrument in Amherst, NH via fax, e-mail, U.S. Mail or at [www.monarchinstrument.com](http://www.monarchinstrument.com). Telephone orders must be confirmed in writing by one of these methods. The order should contain the Monarch model and item numbers, quantity, price, purchase order number, shipping and billing addresses, method of payment, preferred shipping method and required delivery date. Also include a contact name with a corresponding e-mail, phone and fax number. Upon receipt of the order, Monarch provides a confirmation of the order, if requested.

**For placement of orders directly to Monarch Instrument:** MONARCH INSTRUMENT 15 Columbia Drive Amherst, NH 03031-2334 USA Tel: 800-999-3390 or 603-883-3390 Fax: 603-886-3300 E-mail: [sales@monarchinstrument.com](mailto:sales@monarchinstrument.com) Website: [www.monarchinstrument.com](http://www.monarchinstrument.com) [www.monarchdirect.biz](http://www.monarchdirect.biz)

Prices are F.O.B. Amherst, New Hampshire and subject to change without notice. All product sales are subject to the terms and conditions of sale set forth on Monarch Instrument's Invoice.

Expedite Fee:	Orders received before 2:00 P.M. EST may be shipped same day, if the product is in stock, for a fee of \$25.00.
Minimum Order:	A \$50.00 net minimum order amount applies to all orders.
Re-stocking Fee:	A 15% re-stocking fee will be charged for items returned for credit.
Credit Terms:	Credit terms are granted at the sole discretion of Monarch Instrument. Unless credit is approved in advance, Buyer agrees to accept delivery and pay by company check or cash for UPS C.O.D. shipments or utilize a credit card. New accounts seeking credit approval for subsequent orders should include bank and three trade references with a purchase order. Credit approvals on new accounts are limited to orders over \$150.00 and may delay shipments by 5 days. If an account is established, full payment is due Net 30 Days after invoice date. Monarch Instrument accepts Visa, MasterCard and Discover to simplify the handling of orders.

**Repair and Calibration Service Policy:** All items being returned to Monarch Instrument for repair and/or calibration must have an RMA Number and be shipped prepaid by customer. Items accepted for Warranty repair are serviced at no charge in accordance with the terms of Monarch Instrument's Warranty policy. Repair charges for physically damaged or out of warranty items will be quoted at the time the RMA number is issued. Payment for out of warranty repairs shall be in accordance with terms stated above. All items returned to Monarch, but found to have no problem, will be subject to a \$50.00 evaluation fee. For questions: e-mail: [support@monarchinstrument.com](mailto:support@monarchinstrument.com). To get an RMA#, please call 1-800-999-3390 and ask for the Repair Department.

Return To: Monarch Instrument  
Attn: Repair Department RMA# XXXXX  
15 Columbia Drive  
Amherst, NH 03031-2334 USA