

MOTOROLA TWO-WAY RADIOS

These radios are designed for heavy-duty, everyday industrial use. Environments such as construction, manufacturing and retail environments, along with many others, require this type of radio in order to function efficiently and productively.



RDX SERIES COMMON FEATURES:

- 39 analog and 83 digital interference eliminator codes
- Designed to IP-55 and MIL-SPEC Specifications
- 3 voice-inversion scramble settings to minimize eavesdropping
- Channel scan with selectable scan list
- 3 audible call tones
- 2-pin accessory plug (compatible with XTN/CLS Series)
- VOX (hands-free use with accessories) with 3 sensitivity levels
- Tri-colour LED with Transmit, Receive and Low Battery indication

RDX SERIES - MULTI-CHANNEL, 4 W

- Up to 4-watt powers (2 W low power setting)
- 18.5 hrs battery life (4 W, 5/5/90, battery save enabled)
- Pre-programmed channels/code combinations
- Direct input frequency programmable
- Bandwidth: 438-470 MHz

SAR571 (RDU4163D) additional features:

- Up to 16 channels w/aliasing (Up to 8 characters)
- Repeater capable • Battery gauge
- Signal strength indicator
- Keypad lock
- Five programmable buttons
- IVOX

SAR570 (RDU4103) additional features:

- Up to 10 channels
- Two programmable buttons
- Auto-scan

Included accessories (SAR570 & SAR571):

- 2400 mAh Li-Ion rechargeable battery
- 12-hour drop-in charging tray with wall adaptor
- Spring belt clip
- User's guide, safety leaflet and Canadian license application form

Order No.	Mfg. No.	Description
SAR570	RDU4103	4 W, 10 channels
SAR571	RDU4163D	4 W, 16 channels

RDX SERIES - 2-CHANNEL, 2 W

- 2 channels
- Up to 2 W power (1 W low power setting)
- 2 UHF frequencies (site license required)
- 12-hr battery life (2 W, 5/5/90, battery save enabled)
- 2 programmable buttons
- Autoscan
- Bandwidth: 450-470 MHz

Included accessories:

- 1100 mAh Li-Ion rechargeable battery
- 7-hour drop-in charging tray w/wall adaptor
- Spring belt clip • User's guide
- Safety leaflet, warranty card, Canadian license application form

Order No.	Mfg. No.	Description
SAR572	RDU2023	2 W, 2 channels

SAR571



SAR570



SAR572



TALKABOUT T9500R FRS/GMRS RECHARGE PACK

- Uses both FRS and GMRS frequencies to provide more channels
- 1.5 watt power • Delivers a range of up to 40 kilometers
- *VibraCall*[®] (vibrate alert function) • NOAA / Weather Alert
- PTT (push to talk) Boost feature
- 22 channels, each with 121 privacy codes for 2662 combinations
- Dual Power: 27 hr. Alkaline and 9 hr. NiMH estimated talk time
- *iVOX* hands-free communication without accessory
- *QT*[™] (QuietTalk) interruption feature
- Backlit display
- LCD battery meter
- Audible low battery alert
- Keypad lock • 10 call tones
- Time-out timer • Priority scan
- Battery saver/Power saver
- Available in Black

Included accessories:

- 2 radios • 2 belt clips
- 1 dual drop-in charger
- Charging adapter • 2 PTT earbuds
- 2 NiMH rechargeable and battery packs

Order No. HX683
Mfg. No. T9500R



CLS SERIES FOUR CHANNEL 1-WATT

- Up to 8 km range, 200,000 sq. ft. or 15 floors
- 1 watt UHF transmit power • 2 frequencies
- Up to 4-channel operation
- 121 interference eliminator with 83 digital and 38 analog codes
- LCD display with battery meter, signal strength indicator
- *VibraCall*[®] alert feature
- Call Alert button with 3 call tones and Off
- Double pin accessory jack
- Compatible with XTN Series audio accessories
- VOX – Voice activated with select audio accessories

Included accessories:

- Lithium ion battery, up to 12 hours battery life
- 3-hr drop-in charger
- Swivel holster
- * Industry Canada Licence Required

Order No. HX166
Mfg. No. CLS1413



ACCESSORIES

Order No.	Mfg. No.	Description	Compatible With Series
BATTERIES			
HX066	53871	NiMH rechargeable battery	XTN
HX186	56557	Lithium ion rechargeable battery	CLS
CHARGER			
HX067	53874	10-hour wall charger	XTN
HX068	53872	10-hour drop-in charging tray	XTN
HX069	53875	2-hour drop-in charging tray	XTN
HX070	53879	Multi-unit cloning station and charger	XTN
HX180	56553	3-hr Drop-in Charger	CLS
HX181	56531	CCS Multi-Charging Station	CLS
HX182	56564	AAA Battery Tray	CLS
AUDIO ACCESSORIES			
HM015	53862	Remote speaker/microphone	XTN/CLS
HM017	53866	Earbud w/in-line push-to-talk button	XTN/CLS
HM005	53863	Earpiece w/microphone	XTN/CLS
HM004	53865	Headset w/swivel boom microphone	XTN/CLS

BIOSYSTEMS TOXIPRO® SINGLE GAS MONITOR

- Compact and rugged
- IP65/IP67 rated protection against water and dust ingress
- Over-moulded boot
- Large backlit display
- Top and front mounted bright LED alarm light
- One-button operation
- Optional built-in vibrating alarm
- Loud alarm
- Exceeds IEC 6100-4-3 for level 3 RFI immunity specifications



HX667

Order No.	Mfg. No.	Description
HX667	54-45-90	O ₂
HX668	54-45-01	CO
HX669	54-45-02	H ₂ S
HX670	54-45-03	SO ₂

MULTIPRO IQ EXPRESS DOCKING STATION

- The MultiPro IQ Express docking station is an automatic calibration station and data download centre for the MultiPro gas detector
- Just drop the detector into the dock and the MultiPro IQ Express does the rest
- The MultiPro IQ Express is a fully automated bump test station that performs up to eight critical tests every time an instrument is placed in the dock
- Automatic instrument identification
- Automatic Ready/Fault indication
- If an instrument fails the bump test, the MultiPro IQ Express will automatically initiate a full span calibration without further intervention from the user
- Docks can operate as independent calibration stations
- Docks can be connected to a PC via USB



Order No.	Mfg. No.	Description
HX677	54-49-9000	MultiPro IQ Docking Station

SOLARIS® MULTI-GAS DETECTORS

- Four-in-one gas detector displays all gas readings simultaneously
- Small and lightweight unit can be comfortably worn all day
- Triple alarm system provides visual, audible and vibrating alarms as standard features
- Rubberized armor casing offers protection from accidental impact
- IP 65 rating ensures reliable performance in harsh environments
- User configuration for alarm set points, calibration gas values and industrial hygiene functions
- UL, CUL, CSA and MSHA approved
- 2-year all-inclusive warranty



HX555

Order No.	Mfg. No.	Description
BASIC KITS		
HX555	10058051	4-Gas Instrument
HX556	10058055	3-Gas (LEL, O ₂ , CO)
HX557	10058057	3-Gas (LEL, O ₂ , H ₂ S)
STANDARD KITS (INCLUDES DATALOGGING OPTION)		
HX559	10058054	4-Gas Instrument
HX560	10058056	3-Gas (LEL, O ₂ , CO)
HX561	10058058	3-Gas (LEL, O ₂ , H ₂ S)

MULTIPRO™ MULTI-GAS DETECTOR

- This compact and ruggedly constructed multi-gas detector is packed with features
- One-button operation and calibration
- Audible and visual alarm
- Real time reading
- Easy-to-read front-mounted backlit display
- Over-moulded boot
- Optional slip-on sampling pump



HX665

Order No.	Mfg. No.	Description
HX665	54-48-314A	4-Gas Basic, Alkaline Battery
HX666	54-49-102	Sample Pump, Continuous, w/10' Tubing, for MultiPro™ Gas Detector

TOXIPRO/LTD IQ EXPRESS DOCKING STATION

- Automatic calibration station and data download centre for the ToxiPro and ToxiLtd single sensor gas detectors
- Drop the detector into the IQ Express and the IQ Express does the rest in as little as 20 seconds*
- Automatic instrument identification
- The IQ Express is a fully automated bump test station that performs up to eight critical tests every time an instrument is placed in the dock
- Total processing time with a full span calibration is still under one minute
- Docks can operate as independent calibration stations
- If an instrument fails the bump test, the IQ Express will automatically initiate a full span calibration without further intervention from the user
- Docks can be connected to a PC via USB or via network



Order No.	Mfg. No.	Description
HX675	54-46-9000	ToxiPro/LTD IQ Docking Station

ALTAIR™ SINGLE-GAS DETECTORS

- Innovative CO, H₂S or O₂ detectors operate for over two years maintenance-free (1080 alarm minutes)
- Triple alarm system provides visual, audible and standard vibrating alarms
- One-button operation with no sensor or battery changes necessary
- Rubberized armor housing provides extra durability
- Easy bump check and built-in calibration feature
- Event recorder stores 25 latest events automatically in instrument memory
- Rated to IP67 for dust and water ingress, great RFI performance.
- Factory-calibrated detector with warranted two-year service life (1080 alarm minutes)
- Class 1, Div 1, Groups A, B, C & D approved



SAO780



Order No.	Mfg. No.	Description
SAO780	10070749	H ₂ S
SAO781	10092522	CO
SAO782	10070791	O ₂

GALAXY™ AUTOMATED TEST SYSTEMS

- Simply place the instrument in the test stand and the system performs the test automatically; no user intervention is required
- Completely standalone; it does not require a computer or network interface for any mode of operation
- For the fully-featured version of *Galaxy™* automated test system, an optional network interface is available for either wired (Ethernet) or wireless (802.11b) networks
- Any web Navigator can be used to access the data of a network-enabled *Galaxy™* automated test system
- Calibration and bump check records, due date for instrument calibration, and the ability to email *MSA* directly for support are just a few of the capabilities of this interface
- Kits below include regulator and cylinder holder
- Other system kits available

SAO785



Order No.	Mfg. No.	Instrument Type
SAO785	10061785	Solaris® Galaxy kit
SAO786	10061812	Sirius® Galaxy kit
SAO787	10061827	Orion® Galaxy kit



HX545



ORION® MULTI-GAS DETECTORS

- Low-cost, reliable, and easy-to-use portable instrument
- Detects the presence of O₂, H₂S, CO and combustible gas
- One-button calibration
- Long-life battery
- Carbon-filled nylon case
- Tough, durable construction
- Built-in pump
- TIM® system compatibility
- Large, easy-to-read display
- Durable sensors
- Link™ software compatibility



ORION® DETECTOR OPTION KITS

Order No.	Mfg. No.	Description	LEL	O ₂	CO	H ₂ S	NiMH Battery & Charger	Alkaline Battery	Calibration Cap	Internal Pump	10 ft. Line	1 ft. Probe	Orange Cordura Case	Calibration Kit	Black Economy Case	Boot
HX545	10030399	Deluxe 4-gas, Datalog	•	•	•	•	•			•	•	•	•	•	•	•
HX546	10025932	Deluxe 4-gas	•	•	•	•	•			•	•	•	•	•	•	•
HX547	10025935	Deluxe 3-gas H ₂ S	•	•	•	•	•			•	•	•	•	•	•	•
HX548	10025938	Deluxe 3-gas CO	•	•	•	•	•			•	•	•	•	•	•	•
HX124	10025931	Industrial 4-gas	•	•	•	•	•			•	•	•	•	•	•	•
HX549	10030420	Industrial 4-gas, less jacket	•	•	•	•	•			•	•	•	•	•	•	•
HX550	10025934	Industrial 3-gas H ₂ S	•	•	•	•	•			•	•	•	•	•	•	•
HX551	10025937	Industrial 3-gas CO	•	•	•	•	•			•	•	•	•	•	•	•
HX552	10030398	Economy 4-gas, NiMH	•	•	•	•	•	•	•							
HX110	10025930	Economy 4-gas	•	•	•	•	•	•	•							
HX553	10025933	Economy 3-gas H ₂ S	•	•	•	•	•	•	•							
HX554	10025936	Economy 3-gas CO	•	•	•	•	•	•	•							

Orion® detectors can be ordered in one of two convenient ways. Either select from the most popular kit combinations above, or contact us in regard to MSA's "Assemble-to-Order" process.

Communications & Instruments

KWIK-DRAW® DETECTOR TUBE PUMPS

- Kwik-Draw® pumps can be used with an assortment of detector tubes
- Used for spot-testing atmospheres for toxic substances
- One-hand operation
- Consistent delivery of a sample draw volume of 100 ml



Order No.	Mfg. No.	Description
HX590	488543	Kwik-Draw® Basic Pump with Remote Sampling Adapter and Carrying Pouch
HX591	487500	Kwik-Draw® Deluxe Pump with Remote Sampling Adapter, Carrying Pouch and End-of-Stroke Indicator

ACCESSORIES

Order No.	Mfg. No.	Description
HX592	73067	Sampling Line, 10 ft
HX593	73068	Sampling Line, 25 ft
HX594	73069	Sampling Line, 50 ft
HX595	87970	Remote Sampling Adapter, required for Sampling Lines
HX596	488780	Solvent Resistant Sampling Line, 25 ft with reel
HX597	488872	Tube Holder, required for HX596 Sampling Line
HX598	470321	Flue Gas Kit
HX599	813929	Detector Tube Handbook



DETECTOR TUBES

- All sets are sold in packages of 10 tubes
- Detector tubes for other gases/vapours are available upon request. Contact us with the details on the substance you need to measure



Order No.	Mfg. No.	Substance Measured	Detector Tube Applicable	Measuring Range (ppm)	Threshold Limit Value 1198 ACGIH (ppm)
HX611	497649	Acetaldehyde	Formaldehyde-0.1	5-50	25 (ceiling)
HX612	804405	Ammonia	NH ₃ -2	2-500	25
HX613	800300	Ammonia	NH ₃ -20	20-1000	
HX614	804589	n-Butyl mercaptan	Ethylmercaptan-0.5	1.5-15	0.5
HX614	804589	t-Butyl mercaptan	Ethylmercaptan-0.5	0.8-5	-
HX615	497606	Carbon Dioxide	CO ₂ -100	100-3000	5000
HX616	487333	Carbon Dioxide	CO ₂ -0.1%	0.1-70 Vol.-%	
HX617	803943	Carbon Monoxide	CO-5	5-1000	25
HX618	487334	Carbon Monoxide	CO-10	10-3000	
HX619	487335	Carbon Monoxide	CO-0.3%	0.3-70 Vol.-%	
HX620	804133	Chlorine	ClO ₂ -0.05	1-46	0.5
HX620	804133	Chlorine Dioxide	ClO ₂ -0.05	0.05-15	0.1
HX614	804589	Ethyl mercaptan	Ethylmercaptan-0.5	0.5-80	0.5
HX621	492870	Gasoline	Gasoline-30	300	
HX622	803945	Hydrogen Cyanide	HCN-2	2-50	4.7 (ceiling)
HX623	804142	Hydrogen Fluoride	HF-1	1-50	3 (ceiling)
HX624	487339	Hydrogen Sulfide	H ₂ S-1	1-200	10
HX625	487340	Hydrogen Sulfide	H ₂ S-100	100-4000	-
HX614	804589	Isopropyl mercaptan	Ethylmercaptan-0.5	0.5-5.5	-
HX614	804589	Methyl mercaptan	Ethylmercaptan-0.5	0.5-5	0.5
HX626	804140	Ozone	Ozone-0.05	0.05-5	0.05 (ceiling)
HX614	804589	n-Propyl mercaptan	Ethylmercaptan-0.5	0.7-8.0	-
HX627	804135	Styrene	Styrene-10	10-300	20
HX628	487338	Sulfur Dioxide	SO ₂ -1	0.5-25	2
HX629	497662	Sulfur Dioxide	SO ₂ -5	5-120	



DETECTOR TUBE INDUSTRY ACTION SETS

• All sets are sold in boxes of 12 tubes



Order No.	Mfg. No.	Set Description
HX600	655864	Agricultural
HX601	655868	Pulp and Paper
HX602	710981	Indoor Air Quality
HX603	655869	Pharmaceutical
HX604	655865	Petroleum
HX605	655867	Mining
HX606	655866	Synthetics
HX607	655933	Chemical Vapour Deposit
HX608	655934	Etching Process
HX609	655935	Epitaxy Process
HX610	655931	Crystal Growth Process

AGRICULTURAL SET

- 4 x Phosphine
- 2 x Sulfur Dioxide
- 4 x Methyl Bromide
- 2 x Hydrogen Cyanide

Order No. HX600

PULP & PAPER SET

- 3 x Chlorine Dioxide
- 2 x Sulfur Dioxide
- 3 x Hydrogen Sulfide
- 2 x Chlorine
- 2 x Ozone

Order No. HX601

INDOOR AIR QUALITY SET

- 2 x Carbon Monoxide
- 2 x Carbon Dioxide
- 2 x Formaldehyde
- 4 x Ozone
- 2 x H₂O (Relative humidity)

Order No. HX602

PHARMACEUTICAL SET

- 3 x Acetic Acid
- 3 x Aromatic HC
- 3 x Qualitest*
- 3 x Hydrogen Cyanide

Order No. HX603

PETROLEUM SET

- 2 x Hydrogen Sulfide
- 2 x Carbon Monoxide
- 2 x Qualitest*
- 4 x Benzene
- 2 x Hexane

Order No. HX604

MINING SET

- 3 x Carbon Monoxide
- 2 x Nitrogen Dioxide
- 3 x Nitrous Fumes
- 4 x Natural Gas/Methane

Order No. HX605

SYNTHETICS

MANUFACTURING SET

- 2 x Toluene
- 4 x Qualitest*
- 2 x Ethanol
- 2 x Vinyl Chloride
- 2 x Trichloroethylene

Order No. HX606

SEMICONDUCTOR SETS

CHEMICAL VAPOUR DEPOSITION PROCESS

- 3 x Ammonia Tubes
- 3 x CO₂ Tubes
- 3 x Nitrous fumes Tubes
- 3 x H₂S Tubes

Order No. HX607

ETCHING PROCESS

- 4 x Ammonia Tubes
- 4 x Chlorine Tubes
- 4 x Hydrogen Chlorine Tubes

Order No. HX608

EPITAXY PROCESS

- 3 x CO Tubes
- 3 x Hydrogen Chloride Tubes
- 3 x Phosphine Tubes
- 3 x Phosgene Tubes

Order No. HX609

CRYSTAL GROWTH PROCESS

- 6 x Phosgene Tubes
- 6 x Phosphine Tubes

Order No. HX610

*Qualitest: General gas detection tube for combustible gases

**SEE PAGES
123 TO 128 FOR
MSA RESPIRATORS**





Canada's Premier Source for Hand Protection



Coated

Chemical

Leather

Disposable

Winter

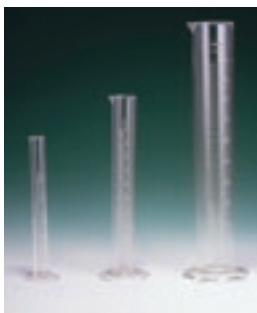
Welding



GRADUATED CYLINDERS

METHYL - PENTENE POLYMER

Graduated cylinders are crystal clear and shatterproof. Single scale with raised numeral graduations. Wide bases make cylinders tip-proof. Superior chemical resistance, heat-resistant to 350°F (177°C), no meniscus.



Order No.	Mfg. No.	Cap. ml	Subdiv. ml
HF625	F28690	10	0.2
HF626	F28691	25	0.5
HF627	F28692	50	1
HF629	F28694	250	2
HF630	F28695	500	5
HF631	F28696	1000	10

POLYPROPYLENE

Graduated cylinders have a single scale with raised numeral graduations for easy reading. Octagonal bases make cylinders roll-proof and stable. Non-wetting polypropylene surface creates no meniscus, making reading easier and more accurate. Polypropylene has excellent chemical resistance and is steam autoclavable at 250°F (121°C). Easily converted to mixing cylinders by using polypropylene stoppers.

Order No.	Mfg. No.	Cap. ml	Subdiv. ml
HF618	F28452	10	0.1
HF619	F28453	25	0.5
HF620	F28454	50	1
HF621	F28455	100	1
HF622	F28456	250	2
HF623	F28457	500	5
HF624	F28458	1000	10

WIDE-MOUTH BOTTLES

The larger *Nalgene*® wide-mouth bottles are great for almost anything. Guaranteed leakproof. Max. temp.: 120°C/248°F.

NALGENE



Order No.	Size	Order No.	Size
HB005	1 oz.	HC678	16 oz.
HB006	2 oz.	HC679	32 oz.
HB007	4 oz.	HB037	1/2 gal.
HB008	8 oz.	HB038	1 gal.

STRAIGHT-SIDED JARS

These attractive canister-style jars are ideal for a wide variety of uses. These jars lock out moisture to help preserve freshness. Stackable and impact resistant. Not recommended for liquid storage. Colour: White.

Max temp.: 135°C/275°F,
Min. temp.: -135°C/-211°F

NALGENE



Order No.	Size	Order No.	Size
HB025	1 oz.	HB028	8 oz.
HB026	2 oz.	HB029	16 oz.
HB027	4 oz.	HB030	32 oz.

NARROW-MOUTH BOTTLES

These sturdy all-purpose bottles offer a large variety of uses. Guaranteed leakproof.

Max temp.: 120°C/ 248°F.
Min.Temp.: -100°C/-148°F.

NALGENE



Order No.	Size	Order No.	Size
HA887	1/4 oz.	HA885	16 oz.
HA888	1/2 oz.	HA886	32 oz.
HA881	1 oz.	DROP DISPENSERS	
HA882	2 oz.	HB233	1/2 oz.
HA883	4 oz.	HB234	1 oz.
HA884	8 oz.	HB235	2 oz.

FIRST RESPONSE™ GENERAL PURPOSE SMOKE DETECTOR

- Battery powered, 9 V battery (included)
- Suitable for all rooms
- Dual-ionization technology
- Alarm and power test feature
- Operating LED
- Up to 30 days low battery warning
- Battery removal indicator
- Easy installation, mounting hardware included
- 10-year limited warranty (battery excluded)
- Meets applicable standards, ULC listed



Order No.	Mfg. No.	Description	Dimensions Dia." x D"
SAI776	SF200	Battery Powered	4.4 x 1.5
XB876	EN22	Replacement battery, 9 V, 12/pkg	

LONG LIFE LITHIUM SMOKE ALARM TAMPER-PROOF

- Battery powered, long life (10 years) lithium battery (included)
- Dual-ionization technology
- Tamper-proof cover design
- Alarm and power test feature
- Up to 30 days low battery warning
- Dimensions: 4.25" Dia. x 1.5" D
- 10-year limited warranty (battery included)
- Meets applicable standards, ULC listed



Order No. SAL341
Mfg. No. SA901

CARBON MONOXIDE DETECTORS

- Advanced semiconductor sensing technology
- Instant test/reset feature
- Self-diagnosing circuitry
- Power and alarm light indicators
- Emergency alarm
- Loud 85 dB alarm pattern
- No batteries or replacement sensor required
- Available in 120 V AC plug-in or hardwire
- SD531 comes with standard and octagon mounting plates
- 5-year limited warranty
- ULC listed, CSA approved



CONSTANTLY MONITORS THE AIR TO MEASURE CO LEVELS!



Order No.	Mfg. No.	Description	Dimensions			
			W"	x D"	x H"	
SD530	C0800	Plug-In	3	x 1.7	x 5	
SD531	C0810	Hardwire	3	x 1.7	x 5	

CARBON MONOXIDE & SMOKE ALARM

- 120 V hardwire
- Dual protection – CO/Smoke
- Alarm-Pause® silence feature
- Alarm source indicator
- Distinct audible and visual alarm indicators
- Instant test/reset feature
- Interconnectable up to 18 units and combination units combined
- Tamper-resistant "Lock-it" key mounting hardware included
- Dimensions: 5" dia. x 1.7" deep
- 5-year limited warranty
- Meets applicable standards



Combination carbon monoxide & smoke alarm in one!

Order No. SAL259
Mfg. No. COS2010

PROPANE GAS DETECTOR

- Monitors, detects, and measures the concentration of propane gas
- Unit is easy to install - simply plug into any standard 120 V AC wall outlet (requires no batteries)
- Loud 85 dB alarm is set to alarm before gas levels reach 25% of lower explosive level
- Instant test feature and self-diagnosing circuitry
- Power and alarm light indicator
- 5-year comprehensive warranty
- Listed to ULC and CSA standards



Order No.	Mfg. No.	Description	Dimensions			
			W"	x D"	x H"	
SD534	LP200	Plug-In	6.5	x 1.4	x 3.5	

NATURAL GAS DETECTOR

- Measures the concentration of natural gas
- Install by simply plugging into any standard 120 V AC wall outlet (requires no batteries)
- Loud 85 dB alarm is set to alarm before gas levels reach 25% of lower explosive level
- Includes a power and alarm light indicator
- Instant test feature and self-diagnosing circuitry
- 5-year comprehensive warranty
- Listed to ULC and CSA standards



Order No.	Mfg. No.	Description	Dimensions			
			W"	x D"	x H"	
SD536	NG200	Plug-In	6.5	x 1.375	x 3.5	

ELECTROMAGNETIC FIELD METER

- Measure electromagnetic radiation from video terminals, fans, faulty wiring, power lines and other equipment
- Measurement range: 0.1 mG to 199.9 mG
- Frequency band width: 30 to 300 Hz (ELF frequency/range)
- 3 1/2 digit LCD, 1/2" (13 mm) high
- Single axis with an accuracy of $\pm 4\%$ at 50-60 Hz
- Sampling rate of 2.5 times/second and overrange indication
- Dimensions/Weight: 135 x 75 x 25 mm/170 g
- Operates on a single 9V alkaline battery

Order No. HX274
Mfg. No. EMF-822A



SMOKE PUFFER

One of the most convenient and widely used smoke sources. Provides smoke on demand. Simply squeeze the rubber bulb handle for discrete puffs or a continuous stream.

Each reload smoke tube produces 250 to 500 puffs of smoke. After use, unused smoke left in tube is preserved by capping with a breech plug. Sealed glass smoke tubes can be stored indefinitely. Supplied in a convenient carrying case.



Order No.	Mfg. No.	Description
HF586	9020186	Smoke Puffer w/ 10 Smoke Tubes
HF587	9020187	Spare Smoke Tubes, Pkg. of 10
IA005	9020188	Spare Rubber Puffer Bulb

CARBON MONOXIDE METER

- Highly accurate with fast response time
- Measuring range from 1 to 1000 PPM with a 1 PPM resolution
- $\pm 5\%$ or ± 10 PPM basic accuracy (whichever is greater)
- Max, Data hold and Auto shut off
- Utilises a stabilised electrochemical gas specific fast response sensor
- Audible alarm starts at 35 PPM
- Backlight LCD display
- Dimensions/Weight: 160 x 56 x 40 mm/180 g
- Complete with 9V battery and carrying case

Order No. HX361
Mfg. No. CO-180

REED



REED

FLAMMABLE GAS LEAK DETECTOR

- Detectable gases: Natural gas and propane/butane
- Conforms to the National and European guidelines
- Optimal operating temperature/humidity: 10 to 50°C, 95% RH or lower
- Operates on two 1.5V "AAA" batteries
- Batteries provide 4 hours of continuous use
- Dimensions/Weight: 164 x 21 mm/25 g

Order No. HX362 **Mfg. No. GD3000**



LEAK DETECTION COMPOUNDS

Scientifically formulated to provide instant leak detection results. To locate leaks, simply apply a small stream of leak detection compound towards area being inspected. Compound spreads quickly to provide lasting bubbles or foam at leakage point.

HA149 is ideal for compressed air and gaseous systems testing. Application with a 12" extension tube is quick and easy. A viscosity additive ensures adherence to the surface being tested, providing a longer inspection period. Temperature range: 32° to 200°F/0° to 93°C.

HB464 is formulated for oxygen system testing. Meets Military Specification MIL-L-22567 Type 1. Provides safe, oxygen compatible leak detection results in the location of oxygen leakage. Temperature range: 27° to 200°F/-3° to 93°C.

- No residue
- Non-corrosive
- Non-toxic
- Non-Flammable



Order No.	Mfg. No.	Description
HA149	100/B	Leak Detection Compound, 1 dozen, 8 oz
HB464	300	Leak Detection Compound, 1 dozen, 8 oz

SOUND LEVEL METER

- Meets IEC 651 Type 1 specifications
- 3 Ranges, 30 to 130 dB,
- MAX HOLD, DATA HOLD
- A/C frequency weighting
- Fast/Slow time weighting
- AC output
- Internal 94 dB calibration

Order No. **HN404** Mfg. No. SL-4022

SPECIFICATIONS

Measuring Range: 30 to 130 dB
Resolution: 0.1 dB
Frequency: 31.5 Hz to 8 kHz
Accuracy: ±1.5 dB
Time Weighting: Fast/Slow (A & C)
Microphone: 1/2" electret condenser
Output: AC output
Certifications: IEC 651 Type 1
Power Supply: 2 x 9V battery
Dimensions: 260 x 87 x 36 mm
Weight: 450g

REED



SOUND LEVEL METER

- Meets IEC 651 Type 2 specifications
- 3 Ranges, 35 to 130 dB
- "A" frequency weighting
- Fast time weighting
- Data Hold

Order No. **HN405** Mfg. No. SL-4010

SPECIFICATIONS

Measuring Range: 35 to 130 dB (A)
Resolution: 0.1 dB
Frequency: 31.5 Hz to 8 kHz
Accuracy: ±1.5 dB
Time Weighting: Fast
Microphone: 1/2" electret condenser
Output: -
Certifications: IEC 651 Type 2
Power Supply: 1 x 9V battery
Dimensions: 250 x 70 x 28 mm
Weight: 250g

REED



SOUND LEVEL METER

- IEC651 Type II
- 32-80, 50-100, 80-130 dB level ranges
- Autoranging from 30 to 130 dB
- Dynamic range of 50 dB
- 0.1 dB resolution
- Frequency Range: 31.5 Hz to 8 kHz
- Accuracy of ±1.5 dB (ref 94 dB @ 1 kHz)
- 32,000 record data logger
- 4-digit backlit display
- Clock and bar graph displays
- Auto power off
- AC and DC output
- Max/Min function
- Includes calibration screwdriver, windscreen, RS232 cable, Windows datalogging software, battery, manual and carrying case

Datalogging



SOUND LEVEL METER

- Dual range measurement (Hi/Lo)
- "A & C" frequency weighting
- Large, easy-to-read LCD display
- Electret condenser microphone for high accuracy and longterm stability
- RS232 computer interface
- Data Hold, Max Hold functions and low battery indication
- Meets IEC651 Type 2 requirements
- Includes carrying case and battery

Order No. **HX387** Mfg. No. ST-805

SPECIFICATIONS

Measuring Range: Low: 35 to 100 dB;
High: 65 to 135 dB (A & C)
Resolution: 0.1 dB
Accuracy: ±1.5 dB
Frequency: 31.5 Hz to 8 kHz
Time Weighting: Fast/Slow (A & C)
Microphone: 1/2" electret condenser
Power Supply: 1 x 9V battery
Dimensions: 210 x 55 x 32 mm
Weight: 230 g

REED



REED



Order No.	Mfg. No.	Description
IA153	C-322	Datalogging Sound Level Meter

OPTIONAL ACCESSORIES

HN406

- Professional, 1 KHz/94 dB
- Diecasting aluminum alloy housing case
- DC, 9V batteries x 2 pcs
- Size: 50 mm dia. x 82 mm



HN406



HN408

HN408

- Wind shield ball for sound level microphones
- Available for SL-4001, SL-4010, SL-4011 & SL-4022
- Size: 65 mm dia.

Order No.	Mfg. No.	Description
HN406	SC-941	94 dB Sound Calibrator
HN408	SB-01	Wind Shield Ball
HX312	SW-U801-WIN	Software
HX316	UPCB-02	RS-232 Cable
HN416	CA-05A	Soft Carrying Case

REED

DIGITAL CONTACT/PHOTO TACHOMETER

A multifunctional unit combining both contact and non-contact measurement of RPM.

- Wide range of measurement
- Contact measurement in unit of RPM or in surface speed (i.e. ft/min and m/min)
- High precision
- Last Value, Min, Max w/memory recall button
- Fast sampling time
- Quartz crystal time-base
- Floating demimal
- Includes battery and carrying case

Order No. HF964

Mfg. No. K4010

Photo Mode: 5 to 99,999 RPM

Contact Mode: 0.5 to 19,999 RPM

Surface Speed: 0.05 to 1,999 MPM/0.2 to 6560 FPM

Accuracy: $\pm(0.05\% + 1 \text{ digit})$

Display: 5-digit LCD

Sampling Rate: 1/second

Memory: Min/Max, last value



REED

PH PEN

- Dual displays of temperature and pH
- Display tilted at a 45° angle for increased readability
- Data hold, Max/Min, Record
- Automatic temperature compensation assures that readings are corrected for temperature offsets
- One touch calibration
- Calibration up to 3 points (pH 4.01, 7.01, 10.01)
- No tools or trimmers needed for calibration
- Replaceable pH electrode module
- Durable, waterproof housing (IP67)
- Low battery indicator
- Auto power off after 20 minutes of inactivity
- Protective cap with pocket clip
- pH range: 0.00 to 14.00 pH



REED

Order No.	Mfg. No.	Description
IA035	8690	Digital pH Pen

ILLUMINOMETER

- Measuring rate of 1.5 times/second
- Over range and low battery indication
- Auto shut off
- Carrying case and 12 V battery included
- Compact and lightweight
- User selectable Lux / Footcandles
- Max & Data hold function

Order No. HX366

Mfg. No. ST-1301

Ranges: 0-50,000 lux, 0-5,000 Fc

Resolution: 0.1 lux/Fc

Accuracy: $\pm 5\%$ of reading < 10,000 lux

Sampling Time: 1.5 times/second

Display: 3-1/2 digit LCD

Power Supply: 1 x 12V battery (included)

Dimensions: 7.4 x 2.5 x 1" (188 x 64 x 25mm)

Weight: 5.6 oz (160g)



REED

DIGITAL PHOTO TACHOMETER

REED

A laser light source provides for improved accuracy of RPM measurements.

- Non-contact measurement of RPM of rotating objects facilitated by integral light beam
- Recalls Max/Min and last values
- Large, easy to read display
- Autoranging with 0.05% accuracy
- Includes battery and carrying case

Order No. HX385

Mfg. No. ST-6234B

Photo Mode: 2.5 to 99,999 RPM

Accuracy: $\pm(0.05\% + 1 \text{ digit})$

Display: 5-digit LCD



DIGITAL CONTACT/PHOTO TACHOMETER

Fast and accurate RPM and surface speed measurements of rotating objects.

- Dual function unit with both contact and non-contact capabilities
- Supplied with adaptors FPM, RPM and surface speed measurements
- Non-contact function utilizes laser light beam for improved accuracy
- Recalls Max/Min and last values
- Large, easy to read display
- Autoranging with 0.05% accuracy
- Includes battery and carrying case

Order No. HX386

Mfg. No. ST-6236B

Photo Mode: 5 to 99,999 RPM

Contact Mode: 5 to 19,999 RPM

Surface Speed: 0.05 to 1999.9 MPM/0.2 to 6560 FPM

Accuracy: $\pm(0.05\% + 1 \text{ digit})$

Display: 5-digit LCD



REED

LIGHT METER

- Accurately measures light levels from 0 to 5000 Foot Candles (Fc) and 0 to 50,000 Lux in 3 ranges
- Displays with resolution of 0.1 Fc and 1 Lux, respectively
- Easy to operate - simply switch to desired range
- Large 0.5" LCD readout displays to 1999 counts and indicates overrange
- Precision selenium photovoltaic cells and microprocessor provide for excellent accuracy of $\pm 5\%$
- Sampling time of 0.4 second
- DATA HOLD switch allows you to retain displayed value
- Automatic zero adjustment
- Separate light sensor facilitates measurements in remote locations
- Built-in analog output of 1mV per count
- Ranges: 2,000, 5,000, 50,000 Lux; 200, 2,000, 5,000 Fc

Order No. HF979

Mfg. No. K7020

Measuring Range: 0 to 50,000 lux; 0 to 5,000 Fc

Resolution: 1, 10, 100 lux; 0.1, 1, 10 Fc

Display: LCD

Sampling Rate: 0.4 second

Power Supply: 1 x 9V battery

Dimensions: 163 x 70 x 30 mm

Weight: 220 g



REED

STEM THERMOMETER

- 1" diameter pocket thermometer
- Easy-to-read LCD numerals
- Fahrenheit/Celsius switchable
- Range: -40° to 302°F (-40° to 150°C)
- Accuracy: ±2°F or ±1°C
- 5" stainless steel stem
- Immerse stem at least 1" for accurate readings
- Handy nylon case with shirt pocket clip included

Order No. HX502
Mfg. No. DT-130

Thermor



STEM THERMOMETER

- Large, easy-to-read LCD
- Fahrenheit/Celsius switchable
- Range: -40° to 450°F (-40° to 230°C)
- Accuracy: 0° to 230°F: ±1.0°F; <0°F: ±3.6°F; >230°F: ±3.6°F
- Resolution: 0.1°F/°C
- 5" stainless steel stem
- Handy nylon case with shirt pocket clip included

Order No. HD558
Mfg. No. PS100

Thermor



THERMO-HYGROMETER

- Dual LCD display shows ambient temperature and relative humidity
- Humidity Range: 10% to 95%RH
- Temperature Range: 0° to 50°C/ 32° to 122°F
- User selectable °C / °F
- Data Hold and Min/Max function
- Compact and lightweight
- Battery included

OPTIONAL ACCESSORIES:

Soft Carrying Case
Order No. HN413



SPECIFICATIONS

Order No.
Mfg. No.
Humidity Range:
Humidity Resolution:
Temp. Range:
Temp. Resolution:
Display:

HX287
LM-81HT
10 to 95% RH
0.1%
0 to 50°C/32 to 122°F
0.1°C/F
Dual LCD, humidity and temperature
-
1 x 9 V Battery
156 x 60 x 33 mm
160 g

REED

RS-232 Output:
Power Supply:
Dimensions:
Weight:

THERMO-HYGROMETER

- Combination infrared thermometer and hygrometer
- Temperature Range: -50° to 500°C/-58° to 932°F
- Humidity Range: 0 to 100% RH, 0.1% RH resolution
- Fixed emissivity of 0.95 covers 90% of surface applications
- User selectable °C or °F
- Built-in laser pointer and 8:1 distance to spot ratio
- Large, easy to read backlit LCD with dual display
- Max and Hold functions
- Auto shut off
- Carrying case, humidity probe and 9V battery included

SPECIFICATIONS

Order No. **HX384**
Mfg. No. ST-616CT
Temperature Range: -50 to 500°C/
-58 to 932°F
Accuracy: ±2%
Display: Backlit LCD
Response Time: < 1 second
Emissivity: 0.95 fixed
Distance to Spot Size Ratio: 8:1
Resolution: 0.1° up to 200°, 1° over 200°
Dimensions: 150 x 72 x 35 mm
Weight: 210 g



REED

HYGROMETER-THERMOMETER

- Dual LCD readout shows ambient temperature and relative humidity
- Integral probe for convenient one-handed operation
- User selectable °F/°C
- Min/Max memory for both functions
- Data hold and relative functions
- Auto power-off
- Battery included

SPECIFICATIONS

Order No. **IA441**
Mfg. No. C-315
Humidity Range: 0 to 100% RH
Resolution: 0.1% RH
Accuracy: ±3% RH
Temperature Range: -4 to 140°F (-20 to 60°C)
Resolution: 0.1°F/°C
Accuracy: ±1.6°F/0.8°C
Power Supply: Single 9V battery
Dimensions: 9.5 x 2.1 x 1.3" (240 x 54 x 34mm)
Weight: 6.4 oz (180g)

SOFT CARRYING CASE

Order No. HN416 **Mfg No. C-315**



REED

DIGITAL THERMOMETER

- Temperature Range: -58 to 2000°F (-50 to 1300°C)
- User selectable °C or °F
- User selectable 0.1°C or 1°C (0.1°F or 1°F) resolution
- Accuracy to 0.5%
- Display maximum reading plus Data Hold
- Large LCD display with backlight
- Accept K-type thermocouples
- Includes 9V battery and holster
- **HX382** is a dual input thermocouple thermometer that provides differential temperature measurements



HX381

HX382

REED

SPECIFICATIONS

Order No.	HX381	HX382
Mfg. No.	ST-610B	ST-612
Temperature Range:	-50 to 1300°C	-58 to 2000°F
Resolution:	1°C/°F or 0.1°C/°F	
Accuracy:	±(0.5 % rdg. ± 1°C/±2°F)	
Humidity Range:	0 to 100% RH	
Resolution:	0.1% RH	
Accuracy:	±3.5% RH	
Power Supply:	1 x 9V battery	
Dimensions:	165 x 76 x 43 mm (HWD)	
Weight:	403 g	

DIGITAL THERMOMETER

- Rugged design for field use - includes rubber holster
- Accurate to 0.3%
- °C/°F switchable
- Front panel offset adjustment to optimize accuracy
- Displays maximum reading plus data hold on large LCD display
- Includes 9V battery, holster with stand, wrist strap



REED

TEMPERATURE

Range:	-50° to 1300°C / -58° to 2000°F
Accuracy:	0.3% rdg + 1°C; > 1000°C - (0.5%)/0.3% rdg + 2°F
Resolution:	0.1° or 1° (user selectable)
Dimensions:	6.5 x 3.0 x 1.7" (165 x 76 x 43 mm including holster)
Weight:	14.2 oz (403 g)

MODEL NO. HN208 DELUXE

Complete digital thermometer kit includes model **HX392** digital thermometer, air, surface and general purpose probe all in a hard carrying case for easy transportation.

Order No.	Description
HX392	Digital Thermometer, Type "K", Single Input
HN208	Thermometer Kit incl. air, surface and general purpose probes and case
HN215	5 point NIST Certificate

SURFACE PROBES



- Ribbon-style surface probe
- Maximum Temperature: 400°C

Order No. HN209
Mfg. No. LS-109



- Spring-loaded probe is ideal for high temperature surface measuring requirements
- Extremely fast response time
- Not recommended for use as an immersion probe
- Maximum Temperature: 500°F

Order No. HN210
Mfg. No. LS-139

RIGHT ANGLE SURFACE PROBE



- Unique right angle design allows temperature of hard to reach areas to be taken
- Great for monitoring temperature inside pipes, also flat surfaces, without keeping hands over heated area
- Maximum Temperature: 400°C

Order No. HN211
Mfg. No. LS-104

AIR/GAS PROBE



- Specially designed to measure air or gases in heating and cooling units, ovens and engine exhausts
- Perforated shield permits fast response while providing exceptional element protection
- Maximum Temperature: 800°C

Order No. HN212 **Mfg. No. LS-103**

NEEDLE TIP PENETRATION PROBE



- Medium gauge hypodermic needle tip, used to measure softer food stuffs, rubbers and solids
- Ideal for use in industrial, laboratory and chemical environments
- Maximum Temperature: 800°F

Order No. HN213 **Mfg. No. LS-134A**

GENERAL PURPOSE IMMERSION PROBE



- Used to measure both air or liquids, but is best recommended for immersion applications
- Excellent for checking temperature of oils, water and non-corrosive fluids
- Maximum Temperature: 700°C

Order No. HN214 **Mfg. No. LS-107**

MINI INFRARED THERMOMETER

- Unique flat surface and modern housing design
- Wide temperature range from -50 to 280°C (-58° to 536°F)
- User selectable °C or °F
- Built-in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, Auto data hold (when trigger released) and Auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- Includes battery and carrying case



REED

SPECIFICATIONS

Order No.	HX242
Mfg. No.	ST-880
Temperature Range:	-50 to 280°C/-58 to 536°F
Accuracy:	±2%
Display:	Backlit LCD
Response Time:	< 1 second
Emissivity:	0.95 fixed
Distance to Spot Size Ratio:	8:1
Resolution:	1°C/1°F
Dimensions:	160 x 82 x 41 mm
Weight:	177 g

MINI INFRARED THERMOMETER

- Unique flat surface and modern housing design
- Wide temperature range from -50 to 550°C (-58° to 1022°F)
- User selectable °C or °F
- Built-in laser pointer identifies target area
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, Auto data hold (when trigger released) and Auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- Includes battery and carrying case



REED

SPECIFICATIONS

Order No.	HX243
Mfg. No.	ST-882
Temperature Range:	-50 to 550°C/-58 to 1022°F
Accuracy:	±2%
Display:	Backlit LCD
Response Time:	< 1 second
Emissivity:	0.95 fixed
Distance to Spot Size Ratio:	8:1
Resolution:	0.1° up to 200°, 1° over 200°
Dimensions:	160 x 82 x 41 mm
Weight:	177 g

HIGH TEMPERATURE INFRARED THERMOMETER

- High temperature range to 750°C/1382°F
- User selectable °C or °F
- Built-in laser pointer identifies target area
- 12:1 distance to spot ratio measures smaller surface areas at a greater distance
- Unique flat surface and modern housing design
- Backlighting illuminates display for taking measurements at night or in areas with low background light levels
- Overrange indicator, Auto data hold (when trigger released) and Auto shut off
- Fixed 0.95 emissivity covers 90% of surface applications
- Includes battery and carrying case



REED

SPECIFICATIONS

Order No.	HX245
Mfg. No.	ST-8819
Temperature Range:	-50 to 750°C
Accuracy:	±2%
Display:	Backlit LCD
Response Time:	< 1 second
Emissivity:	0.95 fixed
Distance to Spot Size Ratio:	12:1
Resolution:	0.1° up to 200°, 1° over 200°
Dimensions:	230 x 100 x 56 mm
Weight:	290 g

INFRARED THERMOMETER WITH THERMOCOUPLE INPUT

- Integral type K thermocouple input
- Built-in laser pointer
- Digitally adjustable emissivity
- Automatic emissivity capture
- High and low alarms
- Max, Min, Average, Diff record
- 20 data points of memory
- Display backlighting
- Auto Data Hold and Auto Shut Off
- Trigger lock
- Includes: Type K thermocouple probe, battery, and carrying case



REED

SPECIFICATIONS

Order No.	IA496
Mfg. No.	ST-8835
IR Temperature Range:	-58.0 to 1922°F (-50.0 to 1050°C)
Resolution:	0.1°F/0.1°C
T/C Temperature Range:	-58.0 to 2498°F (-50.0 to 1370°C)
Resolution:	0.1° ≤ 2000°, 1° > 2000°
Accuracy:	±1.5% of reading
Optical Resolution:	30:1
Emissivity:	Adjustable, 0.10 to 1.0
Response Time:	< than 1 second
Power Supply:	single 9V battery
Dimensions:	180 x 106 x 48 mm
Weight:	250 g