



DESIGNED TO A HIGHER STANDARD TEST INSTRUMENTS CATALOG





MILWAUKEE® TEST INSTRUMENTS

When it comes to test instruments, there isn't an expert out there who knows what works better than you. Milwaukee® has a proven track record of getting out in the field to understand the demands of a constantly changing workplace. By working with our users, we're designing instruments that make you more productive and help you be the best at what you do.

DESIGNED TO A HIGHER STANDARD

Milwaukee® offers a comprehensive line of Test and Measurement tools built specifically for you. Everything from our high-contrast white on black displays, to our built-in work light and voltage detection, to our rugged over-molding is designed to make your job easier. Milwaukee® also offers a rechargeable system for test instruments, powered by our M12™ REDLITHIUM™ battery.

Built to last, Milwaukee® Test and Measurement tools are backed by the Milwaukee® 5 Year Warranty.

FOR THE TRADE

Table of Contents

IHERWAL	MAGING	
2260-21	M12 [™] 160x120 Thermal Imager	8
FORK MET	ERS	
2205-20	Fork Meter	10
2206-20	Fork Meter for HVAC/R	- 11
CLAMP ME	ETERS	
2231-20	Milliamp Clamp Meter	12
2235-20	400 Amp Clamp Meter	13
2237-20	Clamp Meter	14
2236-20	Clamp Meter for HVAC/R	15
DIGITAL M	ULTIMETERS	
2216-20	Digital Multimeter	16
2217-20	Digital Multimeter	17
2220-20	Electrical Combo Kit	18
VOLTAGE D	DETECTORS	
2202-20	Voltage Detector with LED	19
2200-20	Voltage Detector	19
TEMPERAT	URE METERS	
2265-20	LASER TEMP-GUN™ Thermometer	20
2266-20	LASER TEMP-GUN™ Thermometer	21
2276-21	LASER TEMP-GUN™ M12™ Cordless Thermometer	22
2277-21	LASER TEMP-GUN™ M12™ Cordless Thermometer for HVAC/R	23
2270-20	Contact Temp Meter	24
LIGHTING	TESTER	
2210-20	Fluorescent Lamp & Ballast Tester	25
INSPECTIO	ON AND DETECTION	
2311-21	M-SPECTOR™ AV M12™ Cordless Multimedia Camera Kit (17mm)	26
2312-21	M-SPECTOR™ AV M12™ Cordless Multimedia Camera Kit (9.5mm)	26
2313-21	M-SPECTOR 360™ Rotating Inspection Scope	27
2314-21	M-SPECTOR 360™ 9 ft Rotating Inspection Scope KIT	28
2291-21	SUB-SCANNER™ M12™ Cordless Detection Tool Kit	29
2280-20	Laser Distance Meter	30
INSTRUME	NT ACCESSORIES	
M-SPECTOR™		31
Accessory and	Meter Cases	32
Electrical Acce		33
Temperature A	ccessories	33
-		
Hand Tools		34
Factory Service	e Centers	35

INCREASED PRODUCTIVITY

Carry Fewer Tools



Built-in LED Light



Built-in Voltage Detector

Easy to Use



Easy-to-Read White on Black Display



Trade-Specific Feature Sets

Built Tough



Rugged Over-Molding



5 Year Warranty



BEST IN CLASS **DURABILITY** AND SAFETY











Protection Against Dust





Protected against objects over 1mm (Tools / Small Wire)

Protected against dust

(No harmful deposit)



Protected against objects over 12mm (Fingers)

Protected against objects over 50mm (Hands)

No protection

Ingress **Protection Ratings**











Protection Against Moisture

Protected against low pressure jets of water from all directions (Limited ingress permitted)

> Protected against water sprayed from all directions (Limited ingress permitted)

Protection against sprays to 60° from the vertical

Protection against direct sprays of water up to 15° from the vertical

Protection against vertically falling drops of water

No protection

OUTSTANDING VALUE





COMPETITIVE SOLUTION



TOTAL INVESTMENT

MILWAUKEE® SOLUTION



COMPETITIVE SOLUTION



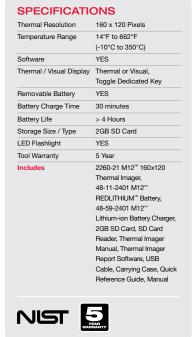
\$463⁷⁵ +\$84⁹⁵ +\$35¹⁵
TOTAL INVESTMENT



M12[™] 160x120 Thermal Imager

2260-21

NIST #: 2260-21NST







provides 4 hours of continuous run-time



FASTER

- Toggle button easily switches the LCD between a thermal and visual image
- PC software allows you to quickly analyze images and rapidly create reports

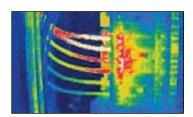




MORE VERSATILE

- Broad temperature range (14°F to 662°F) to cover more applications
- Crisp, high resolution 160 x 120 pixel Thermal images for better definition and clarity





EASIER TO USE

- Intuitive key pad layout is perfect even for infrequent users
- All thermal and visual images saved in standard JPEG format for use in any program







To request your own in-person demonstration or for more information:

- Visit milwaukeetool.com/thermal-imaging
- Call 855-653-8665
- · Or scan this QR code



Fork Meter

2205-20 NIST #: 2205-20NST









Fork Meter for HVAC/R

2206-20 NIST #: 2206-20NST

Current AC	200A
Fork Opening	0.63"
TRMS	YES
Safety Rating	CAT IV 600V / CAT III 1000V
Microamps DC	1,000µA
Voltage AC/DC	1000V
Resistance	40 MOhm
Continuity	Audible
Capacitance	1,000µF
Contact Temperature	-40°F to 752°F (-40°C to 400°C)
Display Backlight	YES
Display Type	White on Black LCD
Non-contact Voltage	YES
LED Work Light	YES
Rugged Over-Molding	YES
Warranty	5 Years
Includes	Fork Meter for HVAC/R, (1) Test Lead Set, (1) Thermocouple (Dual Banana), (2) AA Batteries Manual









Milliamp Clamp Meter

2231-20 NIST #: 2231-20NST









400 Amp Clamp Meter

2235-20 NIST #: 2235-20NST











Clamp Meter

2237-20 NIST #: 2237-20NST

Jaw Size	1.3"
TRMS	YES
Safety Rating	CAT III 600V
Current AC/DC	600A
Voltage AC/DC	600V
Frequency	10 kHz
Resistance	6 kOhms
Continuity	Audible
Capacitance	4000μF
Display Backlight	YES
Display Type	White on Black LCD
Non-contact Voltage	YES
LED Work Light	YES
Rugged Over-Molding	YES
Warranty	5 Years
Includes	Clamp Meter, (1) Test Lead Set, (2) AA Batteries, Manual
cUL us Tru	RMS WY TERS





Clamp Meter for HVAC/R

2236-20 NIST #: 2236-20NST

Jaw Size	1.3"
TRMS	YES
Safety Rating	CAT III 600V
Current AC	600A
Microamps DC	600μΑ
Voltage AC/DC	600V
Resistance	6 kOhms
Continuity	Audible
Capacitance	4000μF
Contact Temperature	-40°F to 752°F
	(-40°C to 400°C)
Display Backlight	YES
Display Type	White on Black LCD
Non-contact Voltage	YES
LED Work Light	YES
Rugged Over-Molding	YES
Warranty	5 years
Includes	Clamp Meter for HVAC/R (1) Test Lead Set, (1)
	Thermocouple (Dual
	Banana), (2) AA Batteries, Manual
cUL us Tru	RMS VV TERS NS







Digital Multimeter

2216-20 NIST #: 2216-20NST





Magnetic Meter Holder 49-77-3001







Digital Multimeter

2217-20 NIST #: 2217-20NST





Magnetic Meter Holder 49-77-3001









Electrical Combo Kit

2220-20

Includes

2217-20 Digital Multimeter, 2202-20 Voltage Detector with LED, 48-22-1901 FASTBACK" Utility Knife, 48-22-2114 11w1 Screwdriver, 49-77-3001 Magnetic Meter Holder, 48-55-0175 Meter Case, Electrical Test Lead Set, Dual Banana Thermocouple, Batteries Included



Digital Multimeter 2217-20 See page 17 for more information







FASTBACK™ Utility Knife 48-22-1901









Voltage Detector with LED

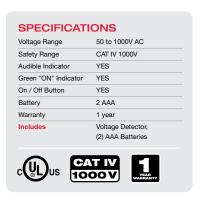
2202-20





Voltage Detector

2200-20









LASER TEMP-GUN™ Thermometer

NIST #: 2265-20NST

Distance to Spot Ratio	10 to 1
Basic Accuracy	
	1.50%
Repeatability	0.50%
Display Resolution	0.1°F (0.1°C)
Response Time	<500 mS
Emissivity	0.95
HOLD / MAX	YES
Display Backlight	YES
Display Type	Standard LCD
ALARM (HI / LO)	YES
Rugged Over-Molding	YES
Warranty	5 Years
Includes	LASER TEMP-GUN™,
	(3) AA Batteries, Manual







LASER TEMP-GUN[™] Thermometer

2266-20 NIST #: 2266-20NST

Temperature Range	-22°F to 932°F (-30°C to 500°C)
Distance to Spot Ratio	12 to 1
Basic Accuracy	1.50%
Contact Temperature	-22°F to 842°F
Input	(-30°C to 450°C)
Repeatability	0.50%
Display Resolution	0.1°F (0.1°C)
Response Time	<500 mS
Emissivity	0.95
HOLD / MAX	YES
Display Backlight	YES
Display Type	White on Black LCD
ALARM (HI / LO)	YES
Rugged Over-Molding	YES
Warranty	5 Years
Includes	LASER TEMP-GUN™,
	(3) AA Batteries, Manual





LASER TEMP-GUN[™] M12[™] Cordless Thermometer

2276-21

NIST #: 2276-21NST

Temperature Range	-22°F to 1472°F (-30°C to 800°C)
Basic Accuracy	1.50%
Distance to Spot Ratio	40 to 1
Contact Temperature	-40°F to 1022°F (-40°C to 550°C)
Display Resolution	0.1°F (0.1°C)
Response Time	<500 mS
Emissivity	Adjustable 0.10 to 1.00
MIN / MAX / AVG / DIF	YES
Data Storage	YES, 20 Points
Alarm (HI / LO)	YES
Locking Trigger	YES
Display Backlight	YES
Display Type	White on Black LCD
LED Flood Light	YES
Rugged Over-Molding	YES
Battery Type	M12 [™] Rechargeable REDLITHIUM [™]
Warranty	5 Years
Includes	2276-20 M12™ LASER TEMP-GUN", (1) Thermocouple (K-Type), 48-11-2401 M12' REDLITHIUM™ Battery, 48-59-2401 M12™ Lithium-ion Battery Charget Carrying Case, Manual





NIST #: 2276-20NST



LASER TEMP-GUN[™] M12[™] Cordless Thermometer for HVAC/R

2277-21 NIST #: 2277-21NST

SPECIFICATIONS HVAC KIT -22°F to 1472°F Temperature Range (-30°C to 800°C) Basic Accuracy 1.50% Distance to Spot Ratio 40 to 1 Contact Temperature -40°F to 1022°F (-40°C to 550°C) Display Resolution 0.1°F (0.1°C) Response Time <500 mS Adjustable 0.10 to 1.00 Emissivity MIN / MAX / AVG / DIF YES Data Storage YES, 20 Points Alarm (HI / LO) YES Locking Trigger YES Display Backlight YES Display Type White on Black LCD LED Flood Light Humidity Measurement YES Dew Point Measurement YES Rugged Over-Molding M12[™] Rechargeable REDLITHIUM[™] Battery Type Warranty 2277-20 M12™ LASER Includes TEMP-GUN™ for HVAC/R, (1) Thermocouple (K-Type), (48-11-2401 M12™ REDLITHIUM™ Battery. 48-59-2401 M12™ Lithium-ion Battery Charger, Carrying Case, Manual









Contact Temp Meter

2270-20 NIST #: 2270-20NST

SPECIFICATIONS 2,500°F to -328°F Temperature Range (1,372°C to -200°C) Basic Accuracy .1% of reading Dual Temperature Input YES Display Resolution 0.1°F (0.1°C) MAX / MIN / AVG YES Display Backlight YES Display Type High-contrast White on Black Rugged Over-Molding YES Warranty 5 Years K-Type Thermocouple YES Display Values T1, T2, T1-T2 Includes (1) Contact Temp Meter (2270-20), (3) AA Batteries, (2) K-Type Thermocouple, (1) Magnet Strap, Manual NIST ST VEAR WARRANTY







Fluorescent Lamp & Ballast Tester

2210-20

SPECIFICATIONS LAMP Test T5, T8, T12 BALLAST Test Electronic PIN Test Operating Temperature -10°C to 50°C Storage Temperature -40°C to 60°C Two Meter Drop Test YES Antenna Adapter YES Antenna Storage Fully Retractable Inside Tool YES Replaceable Antenna Battery Life 35 Hours Auto Battery Off Turns Off After 20 Minutes Battery Type Alkaline (AA) Tool Warranty Includes Fluorescent Lamp & Ballast Tester, Soft Carry Case, Antenna Adapter, Manual, (4) AA Batteries









M-SPECTOR[™] AV M12[™] Cordless Multimedia Camera Kit

17mm Digital 2311-21 9.5mm Analog 2312-21

SPECIFICATIONS 2311-21 17mm Camera Head Digital 2312-21 9.5mm Camera Head Analog Cable Length 31 LCD Display 3.5" LCD Display Resolution 320 x 240 Brightness Control 4X LED 4X Zoom Image Rotation YES Audio Capability YES Photo Capability 3,800 Photos Video Recording 45 Min Run-Time Includes 2311-20 M-SPECTOR™ Camera 48-11-2401 M12™ REDLITHIUM™ Battery, 48-59-2401 M12™ Lithium-ion Battery Charger, 3' Digital (17mm) Camera Cable, 2GB SD Card, USB Cable, Carrying Case

2GB SD card (included) records up to:

- 45 minutes audio and video
- 3,800 high resolution images







M-SPECTOR 360[™] Rotating Inspection Scope

9mm Digital 2313-21

SPECIFICATIONS Cable Length LCD Display 2.7" High-Resolution Color 320 x 240 Display Resolution Image Sensor 640 x 480 Resolution 4 LED's, 5 Settings LED Worklight Run-Time 12 Hrs. 2313-21 M-SPECTOR Includes 360™ Kit, 48-11-2401 M12™ REDLITHIUM™ Battery, 48-59-2401 M12™ Lithium-ion Battery Charger, Carrying Case, Hook, Magnet and Mirror Attachments

Tool-only also available. 2313-20









M-SPECTOR 360[®] 9 ft Rotating Inspection Scope Kit

9mm Digital 2314-21

SPECIFICATIONS Cable Length LCD Display 2.7" High-Resolution Color Display Resolution 320 x 240 Image Sensor 640 x 480 Pixel Density LED Worklight 4 LED's, 5 Settings Run-Time 12 Hrs Includes 2314-21 M-SPECTOR 360™ Kit, 48-11-2401 M12™ REDLITHIUM™ Battery, 48-59-2401 M12™ Lithium-ion Battery Charger, Carrying Case, Hook Magnet and Mirror Attachments, Plumbing Ball Attachment 5 SATTERY VEAR WARRANTY





SUB-SCANNER[™] M12[™] Cordless Detection Tool Kit

2291-21

Stud Mode	1.5"
Metal Mode	6"
Measurement Accu	racy
Stud Center	0.25"
Metal Center	0.5"
Specifications	
Auto Calibration	YES
Battery Type	M12™ Rechargeable REDLITHIUM™
Warranty	5 Years
Includes	2291-20 SUB-SCANNER™ M12™ Detection Tool, 48-11-2401 M12™ REDLITHIUM™ Battery, 48-59-2401 M12™ Lithium-ion Battery Charger, Carrying Case, Manual
TOOL BATTERY SO VEAR WARRANTY	

Tool-only also available. 2291-20











Laser Distance Meter

2280-20









M-SPECTOR™ Accessories

For use with:

M-SPECTOR™ Digital Inspection Camera Kit (2300-20)



M-SPECTOR[™] (17mm) 3¹ Replacement Digital Camera Cable 48-53-0115



M-SPECTOR™ 3¹ Extension Cable (17mm) 48-53-0110

M-SPECTOR™ AV Accessories

For use with:

- M-SPECTOR™ AV M12™ Cordless Multimedia Camera Kit (17mm) (2311-21)
- M-SPECTOR™ AV M12™ Cordless Multimedia Camera Kit (9.5mm) (2312-21)



M-SPECTOR[™] AV (17mm) 3¹ Replacement Digital Camera Cable





M-SPECTOR™ AV (17mm) 8¹ Extension Cable 48-53-0140



M-SPECTOR[™] AV (9.5mm) 3¹ Replacement Analog Camera Cable 48-53-0130



M-SPECTOR[™] AV (17mm) 3¹ Extension Cable 48-53-0141

M-SPECTOR™ 360 Accessories

For use with:

Milwaukee Models 23-13-20, 2313-21 and 2314-21



M-SPECTOR 360[™] Scope Head Attachment Set 48-53-0112



M-SPECTOR 360[™] Pipe Guide Attachment 48-53-0113

Accessory Cases



Rollup **Accessory Case** 48-55-0165



Zippered Accessory Case 48-55-0170





Rollup Accessory Case SPECIFICATIONS

Material	Nylon
Velcro	YES
Inside Compartments	4 Pockets with Velcro
Strap for Hanging	YES
Warranty	1 Year



Zippered Accessory Case SPECIFICATIONS

Material	Nylon
Zippered	YES
Inside Pocket	YES
Strap for Hanging	YES
Warranty	1 Year



Meter Case SPECIFICATIONS

Material	Nylon
Zippered	YES
Inside Pocket	YES
Strap for Hanging	YES
Warranty	1 Year



Meter Cases



Meter Case 48-55-0175



Large Meter Case 48-55-0180





Large Meter Case SPECIFICATIONS

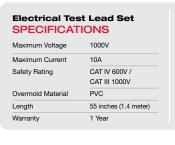
0. 20. 10. 11.0110	
Material	Nylon
Zippered	YES
Inside Pocket	YES
Strap for Hanging	YES
Warranty	1 Year



Electrical Accessories



Electrical Test Lead Set 49-77-1001









Electrical Test Leads 49-77-1003

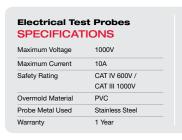
SPECIFICATIONS	
Maximum Voltage	1000V
Maximum Current	10A
Safety Rating	CAT IV 600V / CAT III 1000V
Overmold Material	PVC
Length	39 inches (1.0 meter)
Warranty	1 Year







Electrical Test Probes 49-77-1004







Electrical Alligator Clips 49-77-1005







Temperature Accessories



49-77-2001

Thermocouple (K-Type) 49-77-2002

Thermocouple (Dual Banana and K-Type) **SPECIFICATIONS** Temperature Range -40°F to 500°F (-40°C to 260°C) Temperature Accuracy 2.5% Overmold Material Teflon

1 Year

39 inches (1.0 meter)

Length

Warranty



Hand Tools

10ın1 Ratchet ECX™ Multi-Bit Driver

48-22-2301





Power Groove Bits



Extended Reach

10_{IN}1 SAE Hex Key Driver 48-22-2104





Power Groove Bits



Wire Stripper

4 Pc SAE Hollow Shaft Nut Driver Set

48-22-2404





Drives Square Fasteners



3" Hollow Shaft

2 Pc Steel Cap Demolition Screwdriver Set

48-22-2002





Compression Forged Tips



High Impact Metal Core

6_{IN}1 Combination Pliers 48-22-3069

- Je



Pliers



Wire Cutter

6_{IN}1 Lineman's Pliers 48-22-3309





Pliers



Fish Tape Puller

3 Pc 1000V Insulated Screwdriver Set

48-22-2202





Slim Drive Shaft



Dual Layer Insulation

Quick Adjust Reaming Pliers 48-22-3110





Quick Adjust



Reaming Head

FACTORY SERVICE CENTERS

Atlanta

6155 Jimmy Carter Blvd Suite F2 Norcross. GA 30071

Boston

375 University Avenue Westwood, MA 02090

Chicago

6310 Gross Point Road Niles. IL 60714

Cleveland

8200 Sweet Valley Drive Valley View, OH 44125

Dallas

2701 W Airport Freeway Unit 110 Irving, TX 75062

Denver

2500 W 8th Avenue, Unit E Denver, CO 80204

Houston

3566 West T.C. Jester Blvd Houston, TX 77018

Las Vegas

5580 S Decatur Blvd Unit 110 Las Vegas. NV 89118

Miami

3311 NW 82nd Avenue Miami, FL 33122

Minneapolis/St. Paul

9705 Valley View Road Eden Prairie, MN 55344

Milwaukee

13145 W Lisbon Road Brookfield, WI 53005

New York City

3068 Whitestone Expressway Flushing, NY 11354

Philadelphia

821 W Sproul Road Springfield, PA 19064

San Antonio

14329 San Pedro Avenue Suite D San Antonio. TX 78232

San Diego

8252 Clairmont Mesa Blvd Unit D San Diego, CA 92111

San Francisco/Oakland

41601 Albrea Street Fremont, CA 94538

Seattle

18939 120th Avenue NE Suite 111 Bothell. WA 98011

Washington D.C.

11712 Baltimore Avenue Beltsville, MD 20705

CANADA

Edmonton

18129 111 Avenue NW Edmonton, AB T5S 2P2

Toronto

140 Fernstaff Court, Unit 4 Vaughan, ON L4K 3L8

1-800-SAWDUST (1-800-729-3878)

