SAFTEC

Helping you work professionally

OUR COMMITMENT

SAFTEC's mission is to be the leader in quality professional electrical, electronic & engineering tools, toolkits and test equipment. The company carries an in-depth inventory of a selection of top brand-name products used by Technicians and Engineers in service, installation, maintenance, manufacturing and quality assurance functions in a wide spectrum of industries.

SAFTEC founded in 1979, has achieved an enviable reputation for delivering on its stated aim: "Helping you to work professionally." Indeed, our customer's needs are our first priority and we are committed to providing the answer to your needs, faster, more efficiently and cost effectively than ever thought possible.

An invitation

Please accept this as a personal invitation to view the extensive range of tools, toolkits, test equipment, service items and industrial components on display in our newly acquired premises. Alternatively our Sales Engineers would welcome the opportunity to visit you and assist you in selecting the right tools to help you to work professionally!

INDEX

SAFTEC

SAFTEC

PROFESSIONAL TOOLKITS & CASES

SAFTEC TOOLKITS OFFER YOU QUALITY, VALUE, RANGE, DETAIL & STYLE

ELECTRONIC ENGINEERS, FIELD SERVICE ENGINEERS, ELECTRICIANS & DATACOMS TOOLKITS

Electronics Engineer

Field Service

Datacoms

Electrical VDE

Service

ZIP BAG TOOLKITS

Office Technician   Electronic/Computer   Electrical VDE   Electronics

ZIP BAGS ARE MADE FROM TOUGH CORDURA WITH HEAVY DUTY ZIPS

ECONOMY TOOLKITS

Economy Electronic

Maintenance

Economy Electrical

Trainee Toolkits

MECHANICAL & PLUMBING TOOLKITS

Mechanical

Apprentice Engineer

Mechanical

Starter Mechanical

Plumbing

*OR LET US DESIGN A PROFESSIONAL TOOLKIT
TO SUIT YOUR REQUIREMENTS*

STANDARD TOOL SELECTIONS

STANDARD FOAM CUT-OUTS AVAILABLE FOR EACH OF THESE TOOL SELECTIONS

TOOL SELECTION A	TOOL SELECTION B	TOOL SELECTION C
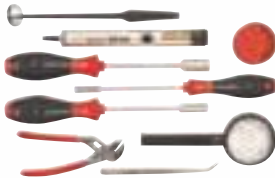
TOOL SELECTION D	TOOL SELECTION E	TOOL SELECTION F
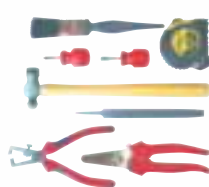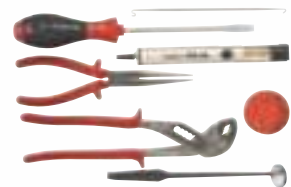
TOOL SELECTION G	TOOL SELECTION H	TOOL SELECTION I

TOOL SELECTION J	TOOL SELECTION K	TOOL SELECTION L

CASE OPTIONS

ASSORTED LID AND bASE PALLETS AVAILAbLE

SCREW DRIVERS, NUT DRIVERS, TORX DRIVERS & HEX DRIVERS

PB SwissGrip®

PB SwissGrip® screwdrivers with their soft handle surface effortlessly transfer the rotational forces of the hand to the screw. They are particularly appreciated in places where problem-free, non-tiring work is a requirement, in the high-tech sector, on assembly lines or DIY. The casing which is made of skin friendly Santroprene®, gives a soft, warm feel to the handle. It encloses the entire surface of the handle and therefore guarantees the best possible contact between the skin and the soft component. The special structure means that a secure grip is ensured even if hands are wet.

FLAT SCREWDRIVERS

PART#	mm	mm	mm	mm
PBB 81000	2,5	0,4	80	160
PBB 81001	3,5	0,5	90	180
PBB 81002	4,0	0,6	100	195
PBB 81003	5,5	0,8	120	220
PBB 81004	6,5	1,0	140	245
PBB 81005	8,0	1,2	160	270

PHILLIPS SCREWDRIVERS

PART#	mm	mm	mm
PBB 819000	00	60	120
PBB 81900	0	60	140
PBB 81901	1	80	175
PBB 81902	2	100	205
PBB 81003	3	150	270

POZIDRIVE SCREWDRIVERS

PART#	mm	mm	mm
PBB 81920	0	60	140
PBB 81921	1	80	175
PBB 81922	2	100	205
PBB 81923	3	150	270

TORX SCREWDRIVERS

PART#	TX	mm	mm
PBB 84003	3	40	117
PBB 84004	4	40	117
PBB 84005	5	50	127
PBB 84006	6	50	127
PBB 84007	7	50	127
PBB 84008	8	60	60
PBB 84009	9	60	140
PBB 840010	10	70	160
PBB 840015	15	80	175
PBB 840020	20	100	200
PBB 840025	25	120	225
PBB 840027	27	125	230
PBB 840030	30	130	240
PBB 840040	40	140	260

HEX/ALLEN SCREWDRIVERS

PART#	mm	mm	mm
PBB 8205071	0,71	40	117
PBB 8205089	0,89	40	117
PBB 8205127	1,27	50	127
PBB 820515	1,5	70	147
PBB 82052	2	80	157
PBB 820525	2,5	90	170
PBB 82053	3	100	180
PBB 82054	4	120	220
PBB 82055	5	140	245
PBB 82056	6	160	270
PBB 82058	8	180	300
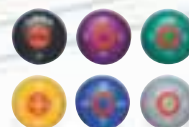
Quick Identification

One glance and you quickly have the right tool in your hand. The integral cast-in screw symbol and additional colour coding enable you to quickly identify the type of screwdriver.

PB SWISS TOOLS

HEX/ALLEN SCREWDRIVERS, BALLPOINT

PART#	⬡ mm	✎ mm	✎ mm
PBB 8206S127	1,27	50	127
PBB 8206S15	1,5	70	147
PBB 8206S2	2	80	157
PBB 8206S25	2,5	90	167
PBB 8206S3	3	100	180
PBB 8206S4	4	120	210
PBB 8206S5	5	140	235
PBB 8206S6	6	160	260
PBB 8206S8	8	180	280

⬢ NUT DRIVER SCREWDRIVERS

| PART#	🔩 mm	✎ mm	✎ mm
PBB 82004	4	70	150
PBB 820045	4,5	80	170
PBB 82005	5	85	180
PBB 820055	5,5	90	190
PBB 82006	6	90	195
PBB 82007	7	100	205
PBB 8200S8	8	120	230
PBB 8200S9	9	140	250
PBB 8200S10	10	160	270
PBB 8200S11	11	180	300
PBB 8200S12	12	190	310
PBB 8200S13	13	200	320

PB ELECTRO-TOOL 1000V VDE SCREW DRIVERS

PB Electro Tool®

PB Electro Tool® handles combine the popular slender shape of the PB Classic handle with the non-slip grip of the PB SwissGrip® material. These VDE-tested tools ensure the safety not only of professional users in the electrical industry but also private users. The basic round shape with conical handle neck is especially suitable for fast turning and making fine adjustments. The ergonomic groves and pleasant, easy-to-grip surface of the soft component used, makes a high level of manual torque possible, as well as long, non-tiring work sessions. Available in all standard sizes & profiles.

PB SETS

PBB 8244C SWISSGRIP
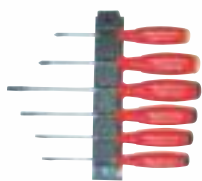
6 Piece screwdriver set.
•Includes wall rack.
•Flat 3.5, 4, 5.5, 6.5mm.
•Phillips PH1 & PH2.

PBB 5542 ELECTRO-TOOLS

1000V VDE, 6 Piece screwdriver set.
•Flat 3.5, 4, 5.5, 6.5mm.
•Phillips PH1 & PH2.

PBB 1620C Electronic

4 Piece electronic screwdriver set.
•Flat 2.0mm & 2.5mm.
•Phillips PH00 & PH0.

OTHER PB PRODUCTS

COLOUR CODED HEX/ALLEN KEY SETS

•Metric & Imperial.
•Standard or Ballpoint.
•Quick recognition of sizes by means of colours.

MAGNETISER & DEMAGNETISER

HOOKS

HOSE PLUCKER

SCRIBER

TUNGSTEN CARBIDE TIP

SCREWDRIVERS, 1/4" BITS, HEX KEYS & PRECISION DRIVERS

Wiha

NEON S/DRIVERS CERAMIC TRIMMERS

FOLD OUT HEX KEY SETS INOMIC PLIERS

NEW

BALLPOINT HEX KEY SETS METRIC/IMPERIAL
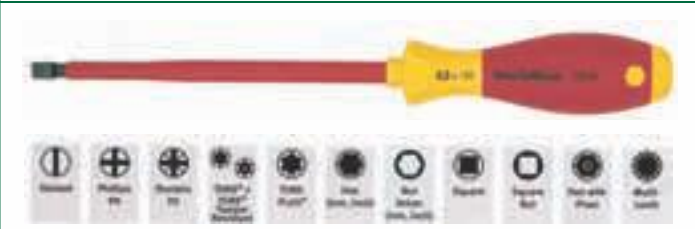
GRIPPER SOCKET SET 3/8 DRIVE METRIC/IMPERIAL

•One socket fits nuts from 7-19mm.

SOFT FINISH, 2 PIECE HANDLE DRIVERS

SOFT FINISH, VDE SCREWDRIVERS

1/4" SCREWDRIVER BITS

Multi Tooth | Hex | Torx | Pozi | Phillips | Square | Flat

PICO FINISH PRECISION DRIVERS

Wiha PicoFinish 250 F

GEDORE

GEDORE

SOCKET SET

TOOLKIT

KNIPEX®

KNIPEX® specialises in development and production of high-quality pliers and is Europe's leading manufacturer of these products. KNIPEX® products are designed to meet the requirements of professional users, who must be able to rely on their tools in day-to-day work.
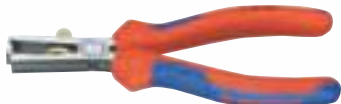
COMBINATION PLIERS

VDE

- Specialtoolsteel,oilhardenedandtempered.
- Longcuttingedgesforthickercables.
- Cuttingedgehardnessapprox.60HRC.
- Availableinsizes140,160,180,200&250mm.

WIRE STRIPPERS

- Forsingle,multiple&finestrandedconductors.
- Easyadjustment.
- Specialtoolsteel,oilhardenedandtempered.

LONG NOSE PLIERS

VDE

- Highlyloadable,elasticprecisionpoints.
- Serratedgrippingsurface.
- Cuttingedgeformediumhardwireandadditionallyinduction hardened.
- Bentorstraight.

CIRCLIP PLIERS - INTERNAL & EXTERNAL

- Straight&bent.
- Solidstyleforged.
- Non-sliptips.
- Chromevanadiumelectricsteel,oilhardened.
- Forcirclipsupto400mmindiameter.

SIDE CUTTERS

VDE

- Precisioncuttingedgesforsoftandhardwire.
- Cleancutting.
- Cuttingedgehardnessapprox.62HRC.
- Narrowheadstyle.
- Availableinsizes110-250mm.

WATER PUMP PLIERS

- Grippingsurfaceswithspecialhardenedteethapprox.61HRC.
- Boxjointdesignhighstability.
- 180-560mm.

ELECTRONIC PLIERS & CUTTERS

| ROUND NOSE 115mm 3532115	FLAT NOSE 115mm 3512115	BENT NOSE 115mm 3542115	LONG NOSE 145mm 3562145
OBLIQUE CUTTER 120mm, 6212120	END CUTTER 6462120	SIDE CUTTER 115mm 7702115	SIDE CUTTER SHARP NOSE 7732115

170-II MICRO-SHEAR® FLUSH CUTTER

• Xuron's world famous, patented original Micro-Shear® flush cutter sets the standard imitators can't meet.
• Flush cuts soft wire up to 0.8mm.
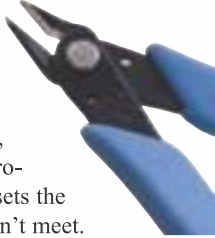
475 XURO-GRIP® SHORT NOSE PLIERS

• High carbon steel for strength and extra slim profile to allow access in high density areas. Jaws have rounded backs for forming operations. The strength to crimp a lead wire with the precision to grasp and hold human hair.
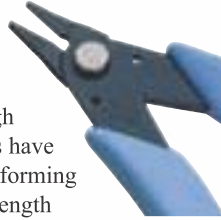
2175 MAXI-SHEAR™ FLUSH CUTTER

• A tough 6" wire cutter featuring our patented Micro-Shear® cutting action. Tough enough for harnesses and cables with the precision to cut material less than 1mm thick or work in high density areas.
• Flush cuts soft wire up to 1.6mm.

LX MICRO-SHEAR® FLUSH CUTTER

• Our patented Micro-Shear® cutting action combined with precision ground cutting edges, extra tough high carbon steel blades, an ultra slim profile for access to high density areas and the same enhanced ergonomic shape as our original LX-81.
• Flush cuts soft wire up to 1.0mm.

410 MICRO-SHEAR® FLUSH CUTTER

• The premium grade version of our world famous 170-II Micro-Shear® flush cutter. Its size and shape are optimized for work in high density areas. Their patented Micro-Shear® blade by-pass reduces both cutting effort and mechanical shock impact transmitted to the component.
• Flush cuts soft wire up to 0.8mm.
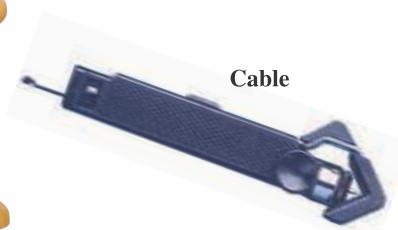
STRIPPERS & TWEEZERS

STRIPMASTER AUTOMATIC

• One light squeeze strips wire clean.
• No nicking, cutting, or fraying.
• Also available in mil-spec.

STRIPPERS

Wire

Cable

COAX CABLE STRIPPERS

• Streamlined design.
• Preset for cable RG58/59/6.
• Easily adjustable.

TWEEZERS

• Straight or bent.
• Standard, fine, superfine.
• Stainless, plastic, ceramic.
• SMD, conventional.

CRIMPING TOOLS

HTH 336A COAXIAL/BNC/HEX

CRIMP: BNC/COAX/HEX(1.72,5.41,6.50).
CABLE SIZE: RG58,59,62.
R atchet with pressure adjustment.

HTH 336K COAXIAL/BNC/HEX

CRIMP: BNC/COAX/HEX(2.54,3.25,10.9).
CABLE SIZE: RG8,11,174,179,213.
R atchet with pressure adjustment.

HTH 336G FIBRE OPTIC

CRIMP: BNC/COAX/HEX/FIBREOPTIC.
(1.09,1.72,2.54,3.48,5.41,6.48).
CABLE SIZE: RG58,59,62,174,Fibre optic.

HTH 2008R PRO. MODULAR

CRIMP: MODuLARPLuGS.
8PBC, 6P6C, 6P4C, 4P2C.
CAPACITY: RJ45,RJ12,RJ11.
R atchet, cuts, strips & crimps.

HTH 236H INSULATED TERMINALS

CRIMP: INSuLATEDTERMINALS.
R ED,YELLOw, BLuE.
SIZES: 0.5-1.0, 1.5-2.5, 4-6mm^2
Ratchet with pressure adjustment.

HTH 236C NON INSULATED TERMINALS
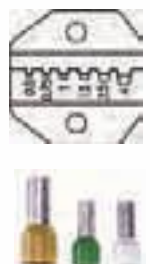
CRIMP: NONINSuLATEDTERMINALS.
Locking0.5-1.0,1.5-2.5,4-6mm^2.
SIZES: A wG20-18,16-14,12-10.
R atchet with pressure adjustment.

HTH 568R DUAL MODULAR

CRIMP: MODuLARPLuGS.
8P8C/6P6C/6P4C.
CAPACITY: RJ45,RJ12,RJ11.
Ratchet, cuts, strips & crimps.

HTH 236E BOOTLACE

CRIMP: BOOTLACETERMINALS.
SIZES: 0.5 - 4.00mm^2
R atchet with pressure adjustment.

Weller

WD1/WD1000 DIGITAL SOLDER STATION

NEW

- The microprocessor controlled soldering station wD1/wD1000 is part of a generation of devices which were developed for industrial production technology including repair and laboratory areas.
- You can extend the functionality diversity of this unit with USB interface for ISO application for calibration, configuration and precise measured values.
- Lead free ready.
- wD2 - has the ability to control two 80w soldering irons at the same time or one soldering iron of 150w.

WS81 SOLDER STATION

WTCP51 SOLDER STATION

230V LINE VOLTAGE IRONS

200 watt
100 watt
60 watt

WSP80 MICRO

- A micro soldering pencil, 80w/24V. This soldering pencil can be universally used in all situations from extremely delicate soldering to those where a greater temperature is required. w SP80 set, consists of w SP80 Micro soldering pencil with w PH80 Support.

WMP

- The 65w micropencil is up to the task with superior performance for both heat-up and thermal efficiency. Suitable to handle all micro components and fine pitch tasks. The w MP provides an extremely short tip-to-grip distance. w MP set consists of w MP Micro soldering pencil and w PHM holder for w MP.

WST 20 THERMAL WIRE STRIPPER

- The w ST20, 50w/24V, copes with all known thermoelastic plastics. Adjustable for a stripping length up to 30mm. Additional blades available for stripping flat cables and shrinking.

WTA 50 TWEEZER

- This tweezer is used to desolder SMD components. The tweezer has two movable heating elements. w TA50 set, consisting of w TA50 tweezer & AK51 support for tweezer.

WMRT MICRO DESOLDERING TWEEZERS

- The new w MRT desoldering tweezer enables, with its twin parallel adjusted tiplets, precise de-soldering of very small SMD components. The high speed regulation of the stations w D1M, w D2M drives this tweezer.

WSP80 MICRO

- with a heating surface of 80x50mm, they preheat pcboards prior to micro rework.

WMD3K MULTI DIGITAL

- The w MD3K is a 3 channel, microprocessor controlled rework station, equipped with hot air pencil, soldering iron and desoldering iron, for use with surface mounted and conventional components. All tools can be operated simultaneously and independently. Additionally any other tool from the w eller Temtronic range can be controlled from this station up to a max loading of 150 watts.

WMD1A MULTI DIGITAL SINGLE CHANNEL

- The w MD1A is a single channel micro-processor controlled hot air station equipped with a HAP1 hot air pencil for use on circuits using smaller surface mounted components. The station has a vacuum facility allowing it to be used as a conventional through hole soldering station by the addition of the desoldering iron, available as an accessory. The station can also drive all other Temtronic tools up to a maximum rating of 150 watts.

FULL RANGE OF WELLER AND PLATO SOLDERING TIPS AVAILABLE

MAGNUM

SOLDERING & DESOLDERING

MAGNUM 2004

DIGITAL TEMPERATURE CONTROLLED SOLDER STATION

- The 2004 soldering station gives total temperature control with digital read-out. It comes standard with the 1002/50w soldering iron. An 80w version of the above station is also available.

MAGNUM 2002

TEMPERATURE CONTROLLED SOLDER STATION

- The 2002 soldering station with total temperature control comes standard with 1002/50w soldering iron. An 80w version of the above station is also available.

MAGNUM 2000

TEMPERATURE CONTROLLED SOLDER STATION

- This general purpose 24VAC 50w transformer station, like the 2002 and 2004, is supplied with a spring safety holder, sponge, spare tip storage and potential balance socket.

MAGNUM 3005 SMD

REWORK STATION

- The 3005 temperature-control station is precision engineered to perform on-demand for all your SMD work and repair. The hot air pencil is designed for effortless removal of components and the soldering iron is used for their replacement.

MAGNUM 3004

HOT AIR STATION

- The 3004 station is supplied with a 1004 hot air pencil, nozzles, SMD removal kit and spring holder.

MAGNUM 3000

DESOLDERING STATION

- This maintenance free compact portable and self contained work station is designed to provide total flexibility during use, allowing temperature of the desoldering iron to be controlled separately.

MAGNUM 1220

SOLDERING IRON

- 220V 60w temperature controlled soldering iron.
- Range adjustable between 200ºC and 420ºC.
- Accuracy of proportional controller +- 3%.
- LED Heating-pulse indicator.
- Zero leakage current when earthed.
- Plugs into any 220VAC power source.

MAGNUM 1230

SOLDERING IRON

- 220V 25w thermally balanced soldering iron.
- Temperature at rest +-420ºC.
- Stainless steel element and barrel.
- Long life iron-plated tips.
- Plugs into any 220VAC power source.

MAGNUM 1012

SOLDERING IRON

- 12V 25w thermally balanced soldering iron.
- Operating temperature +-400ºC.
- Stainless steel heating element with barrel.
- Long life iron-plated tips.
- Battery clips connect to car battery.

SAFTEC

SOLDERING AIDS

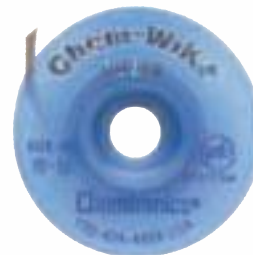## DESOLDER BRAID/WICK

•25L.
•0,8mm.
•Microcircuits.
•1,5mLength.

•55L.
•1,3mm.
•Smallpads.
•1,5mLength.

•75L.
•1,9mm.
•Mediumpads.
•1,5mLength.

•105L.
•2,5mm.
•Largerpads.
•1,5mLength.

SOLDERING WIRE, BARS, PASTES & FLUXES

FLUX GEL

SOLDERING SPONGES

BUTANE GAS REFILL

WIRES, BARS & PASTES AVAILABLE IN STANDARD
METAL COMBINATIONS INCLUDING LEAD FREE

## SOLDER SUCKERS

FUME EXTRACTORS

SOLDER DISPENSER

SOLDER POTS

Weller portasol

GAS SOLDERING

PORTASOL TECHNIC	PORTASOL PROFESSIONAL	PORTASOL SUPERPRO II	WELLER PYROPEN
•The original •Continuous use up to 60min. •Quick heat up times. •Temp adjustable. •Fitted ignitor.	•Continuous use up to 90min. •Quick heat up time. •Temp adjustable. •Fitted ignitor. ALSO AVAILABLE IN KIT	•Continuous use up to 120min. •Tip temp 580ºC max. •Temp adjustable (25-125 watts equivalent. •Piezo ignitor. ALSO AVAILABLE IN KIT	•Piezo ignitor. •One fill lasts up to 3 hours. •350ºC-500ºC. COMES IN KIT

SPARE TIPS AVAILABLE FOR ALL THE ABOVE GAS SOLDERING IRONS

GENERAL

MAGNIFICATION LAMPS AND HELPING HANDS

•X5 Magnification.
•220 Volt.
•LED

•FZ1090TL
•3.5" Dia, 2 x power
•Magnifier with 2 LED lights
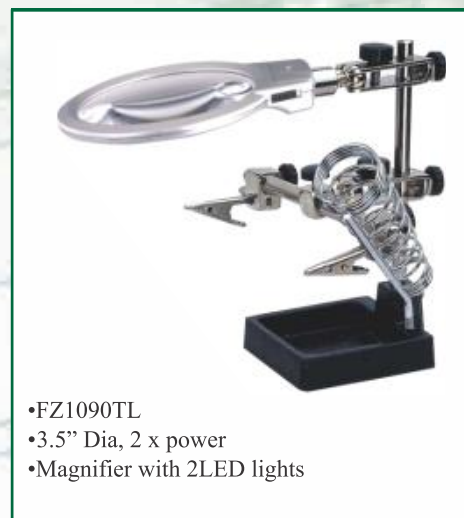
PLUGS, EXTENSIONS, BATTERIES, NITTO TAPE AND CABLE TIES
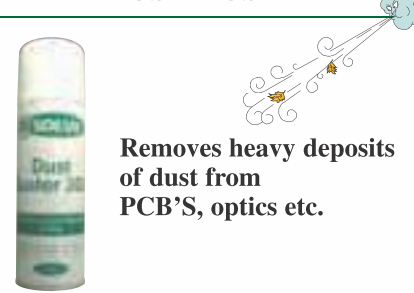
makita BOSCH Metabo
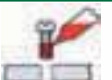
AEROSOLS

THE NEW NAME IN AEROSOLS FOR THE ELECTRONICS INDUSTRY

FR200 FLUX REMOVER

Removes flux residues, finger prints, watermarks, dirt and grease from PCB'S.

DB300 DUST BUSTER

Removes heavy deposits of dust from PCB'S, optics etc.

LR350 LABEL REMOVER

THIS WAY UP BREAKABLE

Removes almost any label from any surface. Natural ingredient.

CONCO PCB VARNISH

Clear self drying silicone resin. Seals and protects. Mil. spec.

LUBRICATING/ PENETRATING OIL

Drys out wet electronics. Lubricates, loosens tight nuts and bolts. Prevents corrosion. Mil. spec.

F40 FREEZER

Cooling agent for thermal fault locating. Cools components to -40°.

LOCTITE®

ADHESIVE MAINTENANCE PRODUCTS

222	222 is for mild strength thread-locking allowing easy dismantling of parts. It is mainly recommended for brass and aluminum fasteners and small precision screws.
243	243 is for medium strength thread-locking of 'as received' parts. Effective on all industrial metals including stainless steel. It is recommended for nuts and bolts of all types.
270	270 is for high strength thread-locking of studs, nuts and bolts. It is recommended for use on threaded fasteners not normally requiring dismantling.
277	277 is a high viscosity product that provides maximum locking strength on large diameter bolts. It is recommended where additional locking strength is required on fasteners subjected to high shear loads as well as high vibration shock levels.
480	480 is a tough, flexible instant adhesive which has extremely good resistance to peel shock loads. Bonds rubber, metal and most plastics.
518	For gasketing and sealing of small to large gaps on virtually any shape or size component. It is especially formulated to cure through large gaps.
572	For medium strength sealing of pipe fittings and coarse threaded components. It is more versatile than pipes dopes, tapes, etc.
638	For maximum strength retaining of cylindrical assemblies when used at elevated temperatures.
648	For high strength retaining of cylindrical assemblies when used at elevated temperatures.

FULL RANGE AVAILABLE ON REQUEST

STATIC CONTROL MATERIALS & SYSTEMS

ANTISTATIC

ANTISTATIC FOOTWEAR

ANTISTATIC WRIST STRAPS

• Adjustable.
• Elastic.
• Silverimpregnated threads.
• Hypoallergenic.

GROUNDING CORDS

ACCESSORIES

• Alligatorclips.
• Encapsulatedbananaplug.
• Adaptors.

CONTINUOUS WRIST STRAP MONITOR

PERSONAL GROUNDING TESTER FOR WRIST STRAPS & FOOTWEAR

EARTH CONNECTING BOX

CONDUCTING BRUSHES
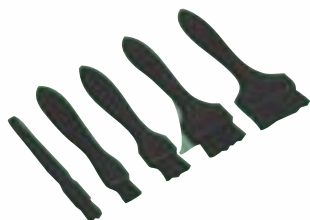
ALUMINIUM SHIELDING BAGS

ESD SERVICE KIT

ANTISTATIC GLOVES

ANTISTATIC FLOOR MAT

max10m

max1,22m
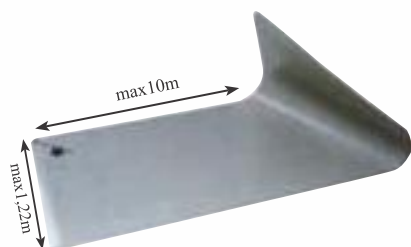
• Staticdissipativematerial.
• Ergonomic.
• Soft&elastic.
• Heat&soundabsorbent.
• wecuttosize.

ANTISTATIC TABLE MAT

max10m

max1,22m
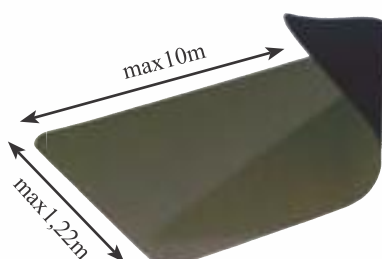
• Twolayermaterial.
• Resistanttosolder&heat.
• Abrasionresistant.
• Elastic.
• Volumeconducting.
• Includes2x10mmsnaps.
• Availableingrey&beige.
• wecuttosize.

ANTISTATIC CHAIRS

ANTISTATIC STAINLESS STEEL WRIST STRAPS

FLUKE

TOP TRONIC

MAJOR

DIGITAL MULTIMETERS

INSULATION TESTERS

CLAMP METERS

YOU NAME IT WE DO IT!

Tektronix® KENWOOD
Agilent Technologies
HUNTRON
LG Life's Good

OSCILLOSCOPES, FUNCTION GENERATORS, POWER SUPPLIES, PATTERN GENERATORS & TRACKERS

IR THERMOMETERS	THERMAL IMAGERS	SOUND LEVEL METERS

VOLTAGE DETECTOR	DISTANCE METER	OSCILLOSCOPES

CABLE LOCTOR	LUX METERS	TONE & PROBE

ACCESSORIES

*PURCHASE TEST EQUIPMENT FROM SAFTEC
AND SEE HOW WE MEASURE UP!*

MAG-LITE® LED LENSER® FENIX®

RECHARGABLE MAGLITE	LENSER P7 TORCH	FENIX TK15 TORCH

TECHMASTER

DK9301- LED HEADLAMP	POCKY-1LED AAA TORCH	EX-TORCH 2AA ALUMINIUM
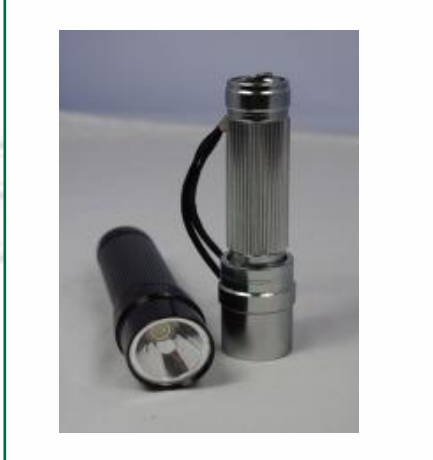
LEATHERMAN®   MULTI FUNCTION PLIERS

BLAST	CHARGE ALX	CORE	CRUNCH	FUSE	MICRA	SURGE	WAVE II

Torches,
Socket Sets & Multi Function Pliers

SAFTEC

INDUSTRIAL SUPPLIES & EQUIPMENT

COUNTER SINKS

DRILL BITS

• Masonary.
• Metric&ImperialSets.
• SetsorLoose.

ENGINEERS FILES
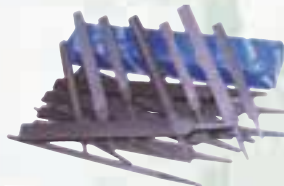
• Alltheshapesallthesizes.

HOLE SAWS

TAPS & DIES

TOOL HOLDERS & INSERTS
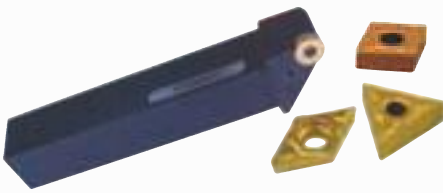
MILLING CUTTERS

DIY POWER TOOLS

CUTTING AND GRINDING DISCS & WHEELS

VARIOUS LADDERS

SOCKET SETS, IMPACT SOCKETS & ACCESSORIES

AIRLINE HOSE

BLOW GUN

PNEUMATIC CONNECTORS
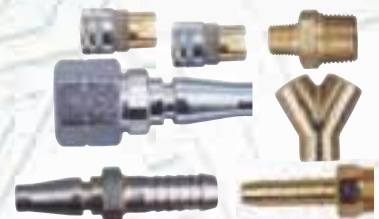
SAND PAPER, EMERY STRIPS, FLEXIBLE SANDING BLOCKS, SANDING DISCS, SANDING BELTS
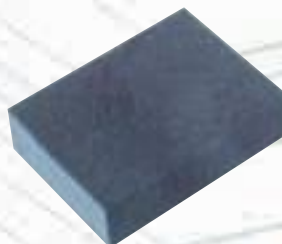
FULL INDUSTRIAL SUPPLIES CATALOGUE AVAILAbLE ON REQUEST

VICES

WIRE BRUSHES & WHEELS

TOGGLE CLAMPS

VARIOUS TAPE MEASURES

MICROSCOPES

HAMMERS

HACKSAWS

CHISELS

KNIVES

SPIRIT LEVELS
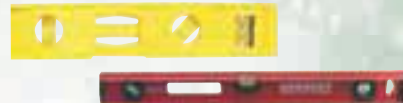
STEEL RULERS

BATTERY CHARGERS

PISTON RING COMPRESSORS

FUEL/CHEMICAL CONTAINERS

STORAGE BOXES

SPRING DIVIDERS

HANDTOOLS

WRECKING BARS
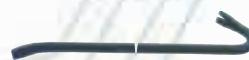
VERNIERS & MICROMETERS

NON SPARKING TOOLS

BOTTLE JACKS

TROLLEY JACKS
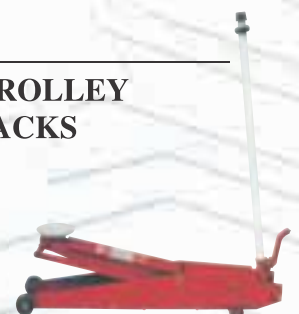
BOSCH

makita **RYOBI**

STEINEL **metabo**

POWER TOOLS & ACCESSORIES

HEAT GUNS & HEATSHRINKS

GLUE GUNS & GLUESTICKS

Industrial Components

SAFTEC

SAFETY EQUIPMENT

FIRE EXTINGUISHERS AND SIGNS

Fire extinguisher

FIRST AID KITS AND REFILLS

FIRST AID

023820

GENERAL

BEACONS	AIRHORNS	BUBBLEWRAP

GLOVES	MASKS AND RESPIRATORS	EARPLUGS AND DEFENDERS

SAFETY SHOES	OVERHAULS AND BOILERSUITS	REFLECTIVE WEAR

SAFETY GLASSES	HARD HATS	BARRIERS

Fluke Connect
An integrated system of wireless test tools and asset management software.

Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect® system.

- Eliminate data-entry errors by saving measurement data directly from the tool and associating it with the work order, report or asset record
- Maximize uptime and make confident maintenance decisions with data you can trust and trace
- Access baseline, historical and curent measurements by asset
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer
- Share your measurement data using ShareLive video calls and emails

Instantly trend and monitor intermittent problems with TrendIt graphs.

Fluke Connect enabled products include:

Current meters
Digital multimeters
Installation testers
Portable oscilloscopes
Temperature meters
Voltage meters
Vibration meters
Process tools
Infrared cameras

Sign up for your free trial at: flukeconnect.com/freetrial

WiFi or cellular service is required to share data . Smart phone, wireless service and data plan not included with purchase . First 5 GB of storage is free. Phone support details can be viewed at fluke .com/phones.

Free Trial Terms: Open to those 18 years or older (or the age of majority under applicable law, whichever is older) . Free trial is for a limited duration and is offered for a limited time . Void where prohibited by law. Terms and conditions are available upon registration .

Screens adjusted slightly to accommodate print . Smartphone is not included with purchase .

Within your providers wireless service area and subject to your plans pricing and other terms . Fluke Connect is not available in all countries. Some Fluke Connect features require a subscription subject to payment terms and may not be available in all countries .

Wirelessly save measurements directly from your test tools into work ordersonly available with Fluke Connect®

DIGITAL MULTIMETERS
Fluke 170 Series Digital Multimeters

Maintenance experts can find most electrical and HVAC problems

The Fluke 170 Series True-rms Multimeters is simple to use with significant improvements over the original Fluke 70 Series.

- Wide 1000 V measurement range
- True-rms for precise measurement of non-linear signals
- Capacitance, resistance, continuity and frequency
- Built-in thermometer (Fluke 179 only)
- Backlight for work in dimly lit areas (Fluke 177 and 179 only)
- Min/Max/Avg to record signal fluctuations
- Display hold and auto hold
- Manual and automatic ranging
- Basic dc accuracy (179/0.09 %, 177/0.09 %, 175/0.15 %)
- Also available: 177 with true-rms and backlight and 175 with true-rms

Specifications

DC voltage	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 0.09 % (Models 177 and 179) ± 0.15 % (Model 175)
AC voltage[1]	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	± 1.0 % of reading
DC current	60.00 mA, 400.0 mA, 6.000 A, 10.00 A[2]	± 1.0 % of reading
AC current[2]	60.00 mA, 400.0 mA, 6.000 A, 10.00 A[2]	± 1.5 % of reading
Resistance	600.0 N, 6.000 kN, 60.00 kN, 600.0 kN, 6.000 MN, 50.00 MN	± 0.9 % of reading
Capacitance	1000 nF, 10.00 µF, 100.0 µF, 9999 µF	± 1.2 % of reading
Frequency[3]	99.99 Hz, 999.9 Hz, 9.999 Hz, 99.99 kHz	± 0.1 % of reading
Temperature (179 only)	-40 °C to +400 °C (-40 °F to +752 °F)	1.0 % of reading
Battery life	200 hours typical for alkaline	
Dimensions (HxWxL)	4.3 cm x 9.0 cm x 18.5 cm (1.7 in x 3.5 in x 7.3 in)	

[1] All ac voltage and ac current ranges are specified from 5 % of range to 100 % of range.
[2] 10 A continuous, 20 A for up to 30 seconds.
[3] Voltage frequency is specified from 2 Hz to 100 kHz. Current frequency is specified from 2 Hz to 30 kHz .

Ordering information

Models	Included accessories
FLUKE-179 Digital Multimeter	Test leads, temperature probe, 9 V battery (installed), manual
FLUKE-177 Digital Multimeter	Test leads, 9 V battery (installed), manual
FLUKE-175 Digital Multimeter	Test leads, 9 V battery (installed), manual

Kitsbuy more, save more

179/EDA2 Electronics Multimeter and Deluxe Accessory Combo Kit

Recommended accessories

TLK-225 SureGrip Master Accessory Set

C25 Meter Case

Industrial Components

SAFTEC

DIGITAL MULTIMETERS

Fluke 289 and 287 True-rms Logging Multimeters

Find little problems before they become big ones

The Fluke 289 and 287 are high performance industrial logging multimeters. The large 50,000 count, 1/4 VGA dot matrix display and multiple on screen displays give you sharp, clear readings. Use the logging function with expanded memory for unattended monitor – ing of signals over time. With on-board TrendCapture, you can graphically review up 10,000 recorded events and logged readings . Then, zoom on trend provides an unprecedented ability to zoom in up to 14 times to view and analyze dataall without needing a PC   .

- Two terminal 50 ohm range with 1 milliohm resolution, 10 mA source current. Useful for measuring and comparing differences in motor winding resistance or contact resistance (289)
- Low-pass filter for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (289)
- Add the wireless data logging capabilities of Fluke Connect® with Share-Live   video call with the if3000 FC connector
- True-rms ac bandwidth 100 kHz; dBV/dBm; dc mV resolution 1 µV; Megohm range up to 500 MΩ
- Conductance 50.00 nS
- Min/Max/Avg/duty cycle/pulse width
- Isolated optical DMM interface with USB PC connection
- Over 200 hours logging capacity with new power saving function
- Lo Ohm capability; Lo Z volts; Lo Pass Filter

Specifications

Functions	Range and resolution	Basic accuracy
AC or dc voltage	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V	0.025 % 0.4 % (true-rms) (ac)
AC current dc current	500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A	0.15 % 0.7 % (true-rms)
Temperature (excluding probe)	-200.0 °C to 1350.0 °C (-328.0 °F to 2462.0 °F)	1.0 %
Resistance	50.000 Ω, 500.00 Ω, 5.0000 kΩ, 50.000 kΩ, 500.00 kΩ, 5.0000 MΩ, 50.00 MΩ, 500.0 MΩ	0.05 %
Capacitance	1.000 nF,10.00 nF, 100.0 nF, 1.000 µF, 10.00 µF, 100.0 µF, 1000 µF, 10.00 mF, 100 mF	1.0 %
Frequency	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz	.005 %

Ordering information

Models	Included accessories
FLUKE-289 True-rms Industrial Logging Multimeter with TrendCapture	Test leads, alligator clips, holster, AA batteries installed, information packet
FLUKE-287 True-rms Electronics Logging Multimeter with TrendCapture	Test leads, alligator clips, holster, AA batteries installed, information packet

Kitsbuy more, save more

289/FVF True-rms Industrial Logging Multimeter Combo Kit with TrendCapture

Recommended accessories

TL175 TwistGuard Test Leads

ir3000 FC Connector

CLAMP METERS

Fluke 370 Series Clamp Meters

Unprecedented measurement flexibility

The Fluke 370 FC Series clamp meters offer advanced troubleshooting performance plus Fluke Connect features to log and transmit data wirelessly.

Now you are able to log and trend measurements (the 376 FC and 375 FC have internal memory for up to 65,000 measurements), capture measurements outside the arcflash zone with Bluetooth® connectivity to your Apple® or Android® devices, transmit results wirelessly via the Fluke Connect Measurements app, and create and send reports right from the field.

The Fluke 370 FC Series Clamp Meters have a large backlit display, true-rms standard, CAT IV safety rating and a durably constructed body. Additionally, the 376 FC, 375 FC and 374 FC are compatible with the iFlex® Flexible Current Probe that measure up to 2500a ac.

Ordering information

Models	Included accessories
FLUKE-373 True-rms Wireless AC Clamp Meter	Test leads, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.
FLUKE-374 FC True-rms Wireless AC/DC Clamp Meter	Test leads, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.
FLUKE-375 FC True-rms Wireless AC/DC Clamp Meter	Test leads, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.
FLUKE-376 FC True-rms Wireless AC/DC Clamp Meter with iFlex	18-inch (45.7 cm) iFlex flexible current probe, test leads, TPAK magnetic hanging strap, soft carrying case, instruction card, safety information sheet, two AA alkaline batteries.

Find how-to videos, application notes, and other useful resources on the clamp meter product pages on www.fluke.com

Fluke 320 Series True-rms Clamp Meters

Go to work with the best

The small and rugged 320 Series True-rms Clamp Meters are the best general troubleshooting tools for commercial and residential electricians and are designed to verify the presence of load current, ac voltage and continuity of circuits, switches, fuses and contacts. The Fluke 325 also offers dc current and frequency measurements.

- 400 A ac current measurement (ac and dc current; 325 only) and 600 V ac and dc voltage measurement
- Resistance measurement to up to 40 kΩ (325) and 4 kΩ (323 and 324) with continuity
- CAT IV 300 V/CAT III 600 V safety rating

Ordering information

Models	Included accessories
FLUKE-325 True-rms Clamp Meter	Test leads, temperature probe, soft case and users manual
FLUKE-324 True-rms Clamp Meter	Test leads, temperature probe, soft case and users manual
FLUKE-323 True-rms Clamp Meter	Test leads, soft case and users manual

Recommended accessories

Fluke 370 Series	Fluke 370 Series	Fluke 320 Series	Fluke 320 Series
i2500-10 10 inch (25.4 cm) iFlex® Flexible Current Probe	C43 Small Soft Case	TL175 TwistGuard Test Leads	L210 Probe Light and Extender

DISTANCE METERS

Fluke 424D, 419D and 414D Laser Distance Meters

Measure farther, with greater accuracy, in more situations

The Fluke family of laser distance meters are essential tools in the tool bag. They provide, instant and accurate measurements up to ± 1 mm with no scales to interpret or misread . Just point, click, done. The 424D has an inclination sensor that helps with leveling, height tracking and, measuring around obstacles. Find area and volume, easily add and subtract distances and calculate height. Easily measure hard–to–access areas without climbing a ladder and without the need for a helper.

Specifications

	Fluke 424D	Fluke 419D	Fluke 414D
Maximum measurement distance	100 m (330 ft)	80 m (260 ft)	50 m (165 ft)
Accuracy	± 1 mm (± 0.04 in)	± 1 mm (± 0.04 in)	± 2 mm (± 0.08 in)
Battery life (number of measurements)	5000	5000	3000
Area measurement			
Volume measurement			
Pythagoras calculations	Full	Full	1+2
Plus and minus calculations			
Measurement storage	20 complete displays	20 complete displays	5 results
Min/Max			Yes(Pyth)
Tripod mount			
Corner angle measurement			
Stake out			
Inclination sensor			
Display	4 line	3 line	2 line
Automated end–piece correction			
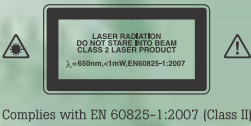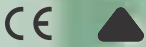
Complies with EN 60825–1:2007 (Class II)

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
λ=650nm,<1mW,EN60825–1:2007

Ordering information

Models	Included accessories
Fluke 424D Laser Distance Meter	Two AAA batteries, users manual on CD, quick reference guide, vinyl carrying pouch, and three–year warranty
Fluke 419D Laser Distance Meter	Two AAA batteries, users manual on CD, quick reference guide, vinyl carrying pouch, and three–year warranty
Fluke 414D Laser Distance Meter	Two AAA batteries, users manual on CD, quick reference guide, vinyl carrying pouch, and three–year warranty

Kitsbuy more, save more

414D/62 MAX+ Kit 414D Laser Distance Meter and 62MAX+ IR Thermometer

Industrial Components

EARTH GROUND TESTERS

Selection guide

	1630	1621	1623-2	1625-2
2-Pole (ac) resistance measurement				
3-Pole earth measurement				
Measurement frequency128 Hz				
4-Pole earth ground and soil resistivity measurement				
Selective testing				
Stakeless testing (ground loop resistance)				
Memory				
USB port				
Automatic Frequency Control (AFC) 94 Hz to 128 Hz				
R* measurement				
Adjustable limits				

Fluke 1625-2 and 1623-2 Geo Earth Ground Testers

Simpler, faster testing

Grounding testers, like the Fluke 1623-2 and 1625-2, help maintain uptime and lower the risk of electric shock to users while helping solve intermittent power quality problems . The Fluke earth ground testers perform all four essential earth ground test methods that users demand:

- 3- and 4-pole Fall of Potential, earth resistance loop testing
- 4-pole soil resistivity testing
- Selective earth ground testing using one clamp
- Stakeless earth ground testing using two clamps

The 1623-2 and 1625-2 also make earth grounding tests faster and easier than previous methods because of automatic data collection and storage and faster setup . Color coded wires for easier identification and deploying of wire reels and stakes .

- IP56 rated for outdoor use
- USB data storage and transfer
- Automatic Frequency Control (AFC)identifies existing interference and chooses a measurement frequency to minimize its effect, providing more accurate earth ground value
- R* measurementcalculates earth ground impedance at 55 Hz to more accurately reflect the earth ground resistance that a fault-to-earth ground would see
- Adjustable limits   for quicker testing

Faster setup, easier testing and deployment of wire reels and stakes.

Clamp-on transformer accessory for ground loop measurements on transmission pylons.

Ordering information

Models	Included accessories
FLUKE-1625-2 Advanced GEO Earth Ground Tester	Two test leads, USB cable, batteries, quick reference guide, users manual
FLUKE-1623-2 Basic GEO Earth Ground Tester	Two test leads, USB cable, batteries, quick reference guide, users manual
FLUKE-1625-2 KIT Advanced GEO Earth Ground Tester Kit	Two test leads, USB cable, 2 clamps (1 source, 1 sensing), carrying case, 4 earth ground stakes, 3 color coded cable reels, batteries, quick reference guide, users manual
FLUKE-1623-2 KIT Basic GEO Earth Ground Tester Kit	

These products are for unpowered installations measuring grounding connections .

Kitsbuy more, save more

Fluke 1625-2 Kit

ES-162P4-2 Stake/reel set for 4-pole measurement

Recommended accessories

EI-1625 Selective/ stakeless clamp set for 1625-2

EI-162BN 320 mm (12.6 in) Split Core Transformer for use with Fluke 1625-2

Fluke 1587 FC/1577 Insulation Multimeters

The High-Performance 2-in-1 Insulation DMM

The Fluke 1587 FC and 1577 Insulation Multimeters combine a digital insulation tester with a full-featured, true-rms digital multimeter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventive maintenance.

The Fluke 1587 FC Insulation Multimeter adds four powerful new diagnostic functions through the Fluke Connect® Measurements app:

- PI/DAR timed ratio tests with TrendIt graphs identifies moisture and contaminated insulation problems faster
- Memory storage through Fluke Connect eliminates writing down results, reduces errors and saves data for historical tracking over time
- Temperature Compensation through app for establishing accurate baselines and relevant historical comparisons
- Historical tracking and trending of assets identifies degradation over time, allows real-time decisions to be made in the field with Fluke Connect® Assets (sold separately)

Specifications

	1587 FC	1577
PI/DAR timed ratio measurements with TrendIt graphs through Fluke Connect Measurements app		
Memory storage through Fluke Connect Measurements app		
Temperature Compensation through Fluke Connect Measurements app		
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V		
Insulation test voltages 500 V, 1000 V		
Insulation resistance	0.01 MΩ to 2.0 GΩ	0.1 MΩ to 600 MΩ
Auto-discharge of capacitive voltage		
Insulation test smoothing reading		
Frequency		
Capacitance		
Diode test		
Temperature		
Min/Max		
VFD low-pass filter for accurate motor drive measurements		
AC/DC voltage		
DC millivolts		
AC/DC milliamps		
Resistance	0.1 Ω to 50 MΩ	0.1 Ω to 50 MΩ
Continuity		
Auto power off		
Warranty (years)	3	3

Ordering information

Models	Included accessories
FLUKE-1587 FC Insulation Multimeter	Remote probe, test leads, alligator clips, K-type thermocouple, hard case, users documentation
FLUKE-1577 Insulation Multimeter	Remote probe, test leads, alligator clips, hard case, users documentation

Troubleshooting efficiency and maximum versatility while testing motors and VSDs accurately with Low-Pass filter.

Kitsbuy more, save more

Fluke 1587 KIT/62MAX+ FC Advanced Electrical Troubleshooting Kit

Fluke 1587/MDT FC Advanced Motor and Drive Troubleshooting Kit

Recommended accessories

TLK289 Industrial Master Test Lead Set

i400 AC Current Clamp

INSULATION TESTERS

Fluke 1507 and 1503 Insulation Resistance Testers

The quality, durability, and convenience you need

These lightweight, affordable insulation testers are perfect for troubleshooting, commissioning and preventive maintenance applications.

- Automatic calculation of polarization index and dialectric absorption ratio (1507 only)
- Multiple test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V (1507 only)
- Remote test probe for rapid testing
- Insulation test range 0.01 MΩ to 10 GΩ (1507), 0.1 MΩ to 2 GΩ (1503)
- Compare (Pass/Fail) function for repetitive tests (1507 only)
- Live circuit detection prevents insulation test if voltage > 30 V is detected
- Auto-discharge of capacitive voltage
- AC/DC voltage: 0.1 V to 600 V
- Lo ohms/Earth-bond continuity (200 mA) for checking connections and motor windings
- Resistance: 0.01 Ω to 20.00 kΩ

Specifications

	1507	1503
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V		
Insulation test voltages 500 V, 1000 V		
Insulation resistance	0.01 MΩ to 10 GΩ	0.1 MΩ to 2 GΩ
Auto-discharge of capacitive voltage		
Continuity function	200 mA acc. EN 61557-4	
Resistance	0.1 Ω to 20.00 kΩ	0.1 Ω to 20.00 kΩ
Auto power off		
Warranty (years)	1	1

Ordering information

Models	Included accessories
FLUKE-1507 Insulation Tester	Remote probe, silicone test leads, test probes, large alligator clips, holster, users manual
FLUKE-1503 Insulation Tester	Remote probe, silicone test leads, test probes, large alligator clips, holster, users manual

Magnetic Meter Hanger frees up both hands to focus on making measurements safely.

Check connections and motor windings with Lo ohms/earth-bond continuity test.

Recommended accessories

TLK289 Industrial Master Test Lead Set

TL27 Heavy Duty Test Lead Set

C116 Soft Carrying Case

C101 Hard Case

POWER QUALITY AND ENERGY TOOLS

Fluke 430-II Series Three-Phase Power Quality and Motor Analyzers

Locate, predict, prevent power quality problems

The Fluke 434-II, 435-II, 437-II and 438-II help troubleshoot power quality problems in three- and single-phase power distribution systems The Fluke patented energy loss algorithm, Unified Power Measurement, measures, quantifies and monetizes energy losses due to harmonics and unbalance issues, allowing the user to pinpoint the origin of energy waste within a system

- Capture fast rms data in real time with PowerWave data capture; show single cycle rms value to characterize electrical system dynamics (generator start-ups, UPS switching etc .)
- Measure key parameters on direct-on-line motors including torque, RPM, mechanical power and motor efficiency (438-II, or with 430-II/MA upgrade option)
- CAT IV 600 V/CAT III 1000 V rated for use at the service entrance
- Automatic transient mode; capture 200 kHz waveform data on all phases simultaneously up to 6 kV for 435-II and 437-II
- Conduct tests according to the stringent international IEC 61000-4-30 Class-A standard intervals for 435-II and 437-II
- With included four iFlex flexible current probes, measure all three phases and neutral
- Download data wirelessly with the Fluke Connect® SD Card (not included with the INTL)
- Three-year warranty

Ordering information

Models	Included accessories
FLUKE-434-II Three-Phase Energy Analyzer	Four thin flexible current probes, five test leads and clips, battery charger, Power Log software, USB cable, color localization set, soft carrying case, 8GB WiFi SD memory card, users manual on CD
FLUKE-435-II Three-Phase Power Quality and Energy Analyzer	
Fluke-438-II Three-Phase Power Quality and Motor Analyzer	
FLUKE-437-II 400 Hz Three-Phase Power Quality and Energy Analyzer	Four thin flexible current probes, five test leads and clips, battery charger, Power Log software, USB cable, color localization set, hard carrying case with wheels, 8GB WiFi SD memory card, users manual on CD
Fluke-430-II/MA 430-II Motor Analyzer Upgrade Kit	Firmware license code

Fluke 1730 Three-Phase Electrical Energy Logger

Find sources of energy waste

The Fluke 1730 Three-Phase Electrical Energy Logger introduces a new simplicity to discovering sources of electrical energy waste . Profiling energy usage across your facility helps you identify opportunities for energy savings and provides you with the easy-to-understand data. The Fluke 1730 Energy Logger can be used for conducting energy surveys that require both a voltage and current connection . Load studies that require a current connection only for evaluating electrical demand capacity can also be performed .

- Quickly understand specific points of energy loss, reduce energy bills more easily than ever
- Optimized layout with specialized touch screen makes navigation easyeven with gloves on
- Advanced auto-correct feature eliminates costly errors due to improper connections
- Power directly from the measured voltage line (up to 500 V) or with conventional ac power cord

Ordering information

Models	Included accessories
1730/BASIC Three-Phase Electrical Energy Logger (excludes current probes)	Power supply, voltage test lead, dolphin clip, i1730-flex 1500 iFlex Flexible Current Probes, color-coded wire clips, power cord, test lead set with stackable plugs, dc power cable(s), USB cable A, mini USB, soft storage bag, input connector decal, information packet. Software included Software included (FEA, Fluke Energy Analyze)
1730/US Portable Energy Logger US version	
1730/EU Portable Energy Logger EU version	
1730/INTL Portable Energy Logger ITNL version	
FLUKE-1735 Three-Phase Power Logger	Four flexible current probes (15 A/150 A/3000 A), Power Log software, voltage leads and clips, color localization set, PC interface cable, international ac adapter (115 V/230 V, 50 Hz/60 Hz), soft carrying case, users manual, multi-language manual on CD

PROCESS CALIBRATION TOOLS

Fluke 789 and 787 ProcessMeter™ Test Tools

Combine the functionality of a loop calibrator with the power of a digital multimeter

Fluke 789 ProcessMeter

The Fluke 789 ProcessMeter is the ultimate troubleshooting tool for process technicians. Add the wireless data logging capabilities of Fluke Connect® with ShareLive™ video call, and process technicians can do a lot more while carrying a lot less .

- Unique new wireless measurement logging capability
- 24 V loop power supply
- HART mode setting with loop power (adds 250 ohm resistor)
- 20 mA drive into 1200 ohms
- 0 % to 100 % mA Span Check buttons to toggle between 4-20 mA
- Infrared I/O serial port compatible with FlukeView® Forms Software

Fluke 787 ProcessMeter

- Simultaneous mA and % of scale readout on mA output
- 25 % Manual Step plus Auto Step and Auto Ramp on mA output
- Min/Max/Avg/Hold/Relative modes

Fluke 789 ProcessMeter is two tools in one, a CAT IV 600V safety rated DMM and a full functioning mA loop calibrator. Perfect for instrumentation and I and E technicians.

Specifications

Measurement function	Best accuracy range and resolution	(% of reading + LSD)
V dc	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.1 % + 1
V ac (true-rms)	400.0 mV, 4.000 V, 40.00 V, 400.0 V, 1000 V	0.7 % + 2
mA dc	30.000 mA	.05 % + 2
A dc	1.000 A (0.440 A continuous)	0.2 % + 2
A ac	1.000 A (0.440 A continuous)	1 % + 2
Resistance	400.0 Ω, 4.000 kΩ, 40.00 kΩ, 400.0 kΩ, 4.000 MΩ, 40.00 MΩ	0.2 % + 1
Frequency (0.5 Hz to 20 kHz)	199.99 Hz, 1999.9 Hz, 19.999 kHz	0.005 % + 1
Diode test	789: 2.000 V (shows diode voltage drop) 787: 2.400 V (shows diode voltage drop)	2 % + 1
Continuity	Beeps for resistance < approx. 100 ohms	

Output function	Range and resolution	Drive capability	Accuracy (% of span)
DC current output-source mode (internal battery operation)	0.000 mA to 20.000 mA or 4.000 mA to 20.000 mA (selectable at power-up) Over-range to 24.000 mA	789: 24 V compliance or, 1,200 ohms, @ 20 mA 787: 12 V compliance or, 500 ohms, @ 20 mA	0.05 %
DC current output-simulate mode (external 24 V loop supply, up to 48 V on 789 only)	0.000 mA to 20.000 mA or 4.000 mA to 20.000 mA, (selectable at power-up) Over-range to 24.000 mA	1000 ohms, @ 20 mA	0.05 %
24 V loop supply	789: Minimum 24 V, 787: Not available	250 ohms @ 20 mA	> 24 V
Current adjustment modes	Manual: coarse, fine, 25 % and 100 % step (100 % step 789 only) Automatic: slow ramp, fast ramp, 25 % step		

General specifications	
Temperature range	18 °C to 28 °C for one year after calibration
Maximum voltage	1000 V rms (applied between any jack and earth ground)
Temperature	-40 °C to 60 °C (storage); -20 °C to 55 °C (operating)
Relative humidity	95 % up to 30 °C; 75 % up to 40 °C; 45 % up to 50 °C; 35 % up to 55 °C
Safety	IEC 61010-1: 600 V CAT IV / 1000 V CAT III
Size (HxWxL)/weight (787 w/ holster)	52 mm x 98 mm x 201 mm (2.06 in x 3.86 in x 7.93 in)/638 g (1.4 lb)
Size (HxWxL)/weight (789)	50 mm x 100 mm x 203 mm (1.97 in x 3.94 in x 8.00 in)/600 g (1.3 lb)
Warranty	Three-year

Ordering information

Models	Included accessories
FLUKE-789 ProcessMeter	Test leads, alligator clips, 4 AA alkaline batteries (installed), quick reference guide, users manual, multi-language manual CD
FLUKE-787 ProcessMeter	Test leads, alligator clips, holster with test lead storage, one 9 V alkaline battery (installed), quick reference guide, users manual, multi-language manual CD

INFRARED TOOLS

Fluke Performance Series: TiS75/65/60/55/50/45/40/20/10

Easy-to-use frontline troubleshooting

Easily see potential problems with precisely blended IR and visual imageswith a 5MP visual camera, up to 320 x 240 resolution, and a large 3 .5 inch LCD. Get precise focus as close as 15 cm (6 in) with manual focus .

- With up to 320 x 240 resolution, you can see more detail in every image, even from a distancedetail that could indicate a potential issue
- Get the context of the visual and infrared details all in one precisely blended or picture-in-picture image with IR-Fusion ® technology[1]
- Reduce the amount of time it takes to get an in focus image with manual or fixed focus options
- Make decisions in real timewirelessly sync images from your camera, create and email reports all with your smart phone and the Fluke Connect® App .
- Wirelessly connect to other Fluke Connect tools and pull in other measurements types like electrical and vibration into your thermal image .
- Removable 4GB micro SD card
- Digitally document critical information with your infrared image using IR-PhotoNotes   or voice annotation[3]
- Monitor battery charge and avoid unexpected loss of power with the smart battery with LED charge indicator

[1]IR-Fusion® and picture-in-picture mode execution varies by model

[2]Within your providers wireless service area; Fluke Connect ® is not available in all countries. Subscription to Fluke Connect® Assets is required in order to use the asset management and work order function
Varies by model; see page 73 for model specifications
[3]

Inspect industrial components.

Designed for your environment.

Ordering information

| Models	Included accessories
FLK-TiS75 30HZ Industrial Commercial Infrared Camera	
FLK-TiS75 9HZ Industrial Commercial Infrared Camera	
FLK-TiS65 30HZ Industrial Commercial Infrared Camera	
FLK-TiS65 9HZ Industrial Commercial Infrared Camera	
FLK-TiS60 9HZ Industrial Commercial Infrared Camera	Universal AC power adapter, lithium ion smart battery (TiS75, TiS65/60 includes 2 eachother models 1 each), USB cable, Micro SD card (TiS75, TiS65/60, TiS55/TiS50, TiS45), hard carrying case (TiS75, TiS65/60, TiS55/50, TiS45/40), soft transport bag, adjustable hand strap (TiS75, TiS65/60, TiS55/50, TiS45/40) and quick start guide. TiS75, TiS65/60 models include a two-bay battery charger.
FLK-TiS55 30HZ Industrial Commercial Infrared Camera	
FLK-TiS55 9HZ Industrial Commercial Infrared Camera	
FLK-TiS50 9HZ Industrial Commercial Infrared Camera	
FLK-TiS45 30HZ Industrial Commercial Infrared Camera	
FLK-TiS45 9HZ Industrial Commercial Infrared Camera	
FLK-TiS40 9HZ Industrial Commercial Infrared Camera	
FLK-TiS20 9HZ Industrial Commercial Infrared Camera	
FLK-TiS10 9HZ Industrial Commercial Infrared Camera	
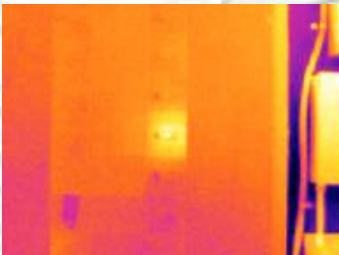
Full infrared.　　　　　　　　　　50 % blending, picture-in-picture mode　　Picture-in-Picture.
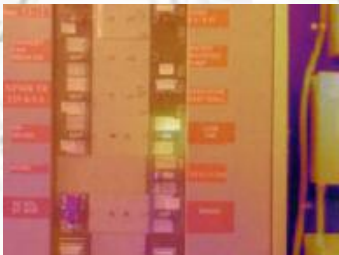
VISUAL IR THERMOMETERS

Fluke VT04/VT04A Visual IR Thermometer

Designed to see it all

See issues in context by blending the infrared heat map with a visual image, and get the detail you need by choosing one of five on-screen blending modes . See aligned images from as close as 15 cm (6 in) in near mode or from a distance in far mode . Plus, obtain accurate temperature readings without taking your eyes off the screen . The center measurement box shows the exact area of temperature measurement . Fill that center box with your target and rest assured youJre not measuring the background.

- Identify intermittent problems by monitoring equipment over time or get alerts when a temperature is outside the expected range with temperature alarms and automated monitoring features
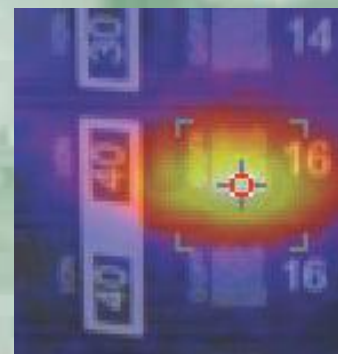- Instantly identify the hottest and coldest spots within the field of view with hot and cold markers
- Handy when you need it; easily fits in your tool bag or pocket
- Intuitive enough to use right out of the box
- Easily access saved images with the removable SD card
- Save in .bmp format when you only want the image, or choose .is2 format so you can optimize images and create reports with Fluke SmartView ® software, available by free download from Fluke.com

Fluke IR Windows CV400/401/300/301/200 CLKT100/75/50

Increase the safety and speed of your electrical infrared inspections

A companys greatest investment is not the equipment thatJs behind the panel door . ItJs the electricians, engineers and inspectors who risk their lives every day doing their jobs .

- Highest arc blast safety rating available63 kA*
- Under 5 minute installation with 1 person; no need to remove panel door
- Clearly view equipment both visually and thermally with ClirVu® coating that protects the optic from the elements
- Corrosion and UV resistant for challenging outdoor environmentsIP67 rugged*

* CV Series only

50 % blended heat map.

Fluke IR Windows enable you to inspect electrical equipment without opening panel doors.

Ordering information

Models	Included accessories
FLK-VT04A Visual IR Thermometer	Soft case, micro-SD card, micro-SD conversion adapter to standard, AA batteries (4), quick reference guide
FLK-VT04 Visual IR Thermometer	Hard case, micro-SD card, micro-SD conversion adapter to standard, lithium-ion rechargeable battery, micro USB charger/power supply (including worldwide adapters), quick reference guide

Ordering information

Models	Included accessories
CV400 4 in (95 mm) IR Window, Hand Turn Door Latch	Fluke IR Windows are supplied complete, assembled and ready for installation. In addition to the IR Window, each carton contains warranty statement and security key if that option is ordered.
CV401 4 in (95 mm) IR Window, Security Key Door Latch	
CV300 3 in (75 mm) IR Window, Hand Turn Door Latch	
CV301 3 in (75 mm) IR Window, Security Key Door Latch	
CV200 2 in (50 mm) IR Window, Hand Turn Door Latch	
FLK-100-CLKT 4 in (100mm) C-Range IR Window, Kwik Twist	Fluke IR Windows are supplied complete, assembled and ready for installation. In addition to the IR Window, each carton contains warranty statement
FLK-075-CLKT 3 in (75mm) C-Range IR Window, Kwik Twist	
FLK-050-CLKT 2 in (50mm) C-Range IR Window, Kwik Twist	

Industrial Components

VISUAL IR THERMOMETERS

Fluke infrared thermometers:
62 MAX+, 62 MAX, 59 MAX and 572-2

Take measurements from a safe distance

Fluke has built infrared thermometers with the durability and accuracy you need to do your job, and all within your budget. These IR Thermometers offer precise laser technology for accurate and repeatable measurements.

Fluke 62 MAX+ highlights:
Three-meter drop tested
12:1 distance to spot ratio
Min/Max/Avg/Dif, Hi and Lo alarms
Dual lasers for superior targeting

Fluke 62 MAX highlights:
Single laser targeting
10:1 distance to spot ratio

Fluke 59 MAX highlights:
8:1 distance to spot ratio
Min/Max/Avg/Dif, Hi and Lo alarms

Fluke 59 Max+ highlights:
10:1 distance to spot ratio
Min/Max/Avg/Dif, Hi/Lo alarms

Specifications

	62 MAX+	62 MAX	59 MAX+	59 MAX
Temperature range	-30 °C to 650 °C (-22 °F to 1202 °F)	-30 °C to 500 °C (-22 °F to 932 °F)	-30 °C to 500 °C (-22 °F to 932 °F)	-30 °C to 350 °C (-22 °F to 662 °F)
Accuracy	± 1.0 °C or ± 1.0 % of reading, whichever is greater -10 °C to 0 °C: ± 2.0 -30 °C to -10 °C: ± 3.0	± 1.5 °C or ± 1.5 % of reading, whichever is greater -10 °C to 0 °C: ± 2.0 -30 °C to -10 °C: ± 3.0	0° C: ± 1.5 °C or ± 1.5 % of reading, whichever is greater	≥ 0 °C: ± 2.0 °C or ± 2.0 % of reading, whichever is greater
Emissivity			0.10 to 1.00	0.10 to 1.00
Power	AA battery			
Compliance	EN/IEC 61010-1: 2001			
Laser safety	FDA and EN 60825-1 Class II			

Fluke 572-2 Thermometer
Extremely wide measurement range from -30 °C to 900 °C (-22 °F to 1652 °F)
60:1 distance to spot ratio with dual laser sighting

Fluke 50 Series II Thermometers

Lab accuracy in a field thermometer

Laboratory accuracy: ± (0.05 % + 0.3 °C)
Large backlit dual display, in °C, °F, or Kelvin (K)
Min/Max/Avg
Supports a wide range of thermocouple types

Powerful data logging capabilities
The Fluke 53 II B and 54 II B can log up to 500 points of data to internal memory.
User-adjustable recording intervals
Real-time clock captures the exact event time
Download data to optional FlukeView® PC software

Ordering information

Models	Included accessories
FLUKE-62 MAX+ Infrared Thermometer, Dual Lasers	
FLUKE-62 MAX Infrared Thermometer, Single Laser	Instruction sheet, battery
FLUKE-59 MAX Infrared Thermometer	
FLUKE 572-2 High Temperature Infrared Thermometer	K-type thermocouple bead probe, durable hard case, USB 2.0 computer interface cable
FLUKE-54-2-B Datalogging Thermometer, Dual Input	Bead thermocouple(s), batteries, overview manual, instructional guide on CD
FLUKE-53-2-B Datalogging Thermometer, Single Input	Bead thermocouple(s), batteries, overview manual, instructional guide on CD
FLUKE-52-2 Digital Thermometer, Dual Input	
FLUKE-51-2 Digital Thermometer, Single Input	

⚠ **CAUTION** ⚠
LASER RADIATION DO NOT STARE INTO BEAM
CLASS ‖ (2) LASER PRODUCT
OUTPUT: <1mW   COMPLIES WITH
WAVELENGTH: 630-670 nm   FDA 21 CFR 1040.10,11

VISUAL IR THERMOMETERS

Fluke 560 Series Infrared Thermometers

Stand up to tough industrial, electrical, HVAC, and mechanical environments

With a straight-forward user interface and soft-key menus, the Fluke 560 Series IR Thermometers make even complex measurements easy. With just a few pushes of a button you can easily adjust emissivity, record data, or turn on and off alarms .

- Measure up to 800 °C (1470 °F)
- Easily access advanced features with the soft-key buttons and graphical display
- Scan large areas or small objects; measure smaller objects from further away
- Compatibility with most type K thermocouples
- Confidently measure more surfaces, with adjustable emissivity and built-in materials table
- Log and download measurements for reporting (568)
- Audible and visual alarms alert you to measurements outside of set limits
- Pipe probe for superheat and sub-cooling; other contact and ambient measurements (561)
- Min/Max/Avg/Dif functions
- Includes KTC bead probe
- 1 % measurement accuracy

Specifications

	Fluke 561	Fluke 566	Fluke 568
Infrared temperature range	-40 °C to 535 °C (-40 °F to 995 °F)	-40 °C to 650 °C (-40 °F to 1202 °F)	-40 °C to 800 °C (-40 °F to 1472 °F)
Accuracy	Greater of ± 1 % or ± 1 °C (2 °F)		
Distance to Spot (D:S)	12:1	30:1	50:1
Sighting	Laser point		
Typical distance to target	Up to 2.5 m (7 ft)	Up to 4.5 m (15 ft)	Up to 7.5 m (25 ft)
Probe type	Thermocouple K		
Contact temperature range	-40 °C to 550 °C (-40 °F to 1022 °F)	-270 °C to 1372 °C (-454 °F to 2501 °F)	
Number of on-board memory locations		20	99
PC download and software			Yes, with FlukeView® Forms
Soft-key feature menu navigation			
Min/Max/Avg/Dif	Min/Max/Dif	Min/Max/Avg/Dif	
Material type adjustment (emissivity)	Hi/Med/Lo	Material table or 0.1 to 1.00 by 0.01	
High and low alarms		High and low alarms	
Hands-free logging			
Battery	2 AA		
Warranty	Two-year		

The 568 allows for temperature measurement of small components.

CAUTION
LASER RADIATION DO NOT STARE INTO BEAM
CLASS II (2) LASER PRODUCT
OUTPUT: <1mW   COMPLIES WITH
WAVELENGTH: 630-670 nm   FDA 21 CFR 1040.10,11

Ordering information

Models	Included accessories
FLUKE-568 Infrared Thermometer	USB cable, FlukeView® Forms software, thermocouple type K bead probe, carrying case, two AA batteries, users manual, quickstart guide
FLUKE-566 Infrared Thermometer	Thermocouple type K bead probe, carrying case, two AA batteries, users manual and quickstart guide
FLUKE-561 Infrared Thermometer	Thermocouple type K pipe probe, carrying case, two AA batteries, users manual
FLUKE-61 Infrared Thermometer	9 V battery, instruction sheet
FLUKE-63 Infrared Thermometer	Wrist strap, carrying case, 9 V battery, users manual

An Arc Flash suit consists of the following products
*ARC Flash Hood
*ARC Flash Jacket
*ARC Trousers
*ARC Flash gloves
*Protective boots

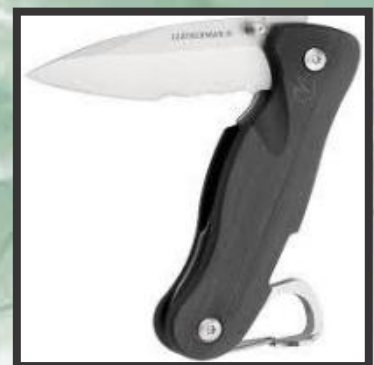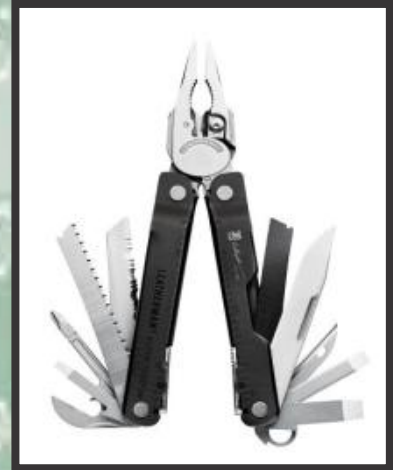The ARC Flash categories range from
*8 CAL to 100 CAL

Safety is always a first priority in electrical engineering. The preservation of life is imperative. Arc Flash suits are a small cost in comparison to the loss in quality of life if a worker is exposed to an electric arc event. Electrical technicians, by law should always wear and be properly trained in the safe use and application of Arc Flash suits and appropriate personal protective equipment such as insulated rescue sticks for the possible electrical hazard with which they may face.

Industrial
Components

SAFTEC

Agilent Technologies

XURON CORP.

LG — Life's Good

LG

SUNON®

Metabo

BOSCH

Makita

Re SOLVE

KENWOOD

portasol

HUNTRON

IDEAL

DMC

BAHCO

LTT Lutron

GEDORE

PANAVISE®

KNIPEX

STEiNEL

TOP TRONIC

Wiha

MAJOR TECH

ESD SYSTEMS

KESTER

ITW Chemtronics®

TECHMASTER

LOCTITE

KENNEDY QUALITY INDUSTRIAL TOOLING

Multicor

PLATO

MAGNUM

Weller

PB SWISS TOOLS

TAMURA

MAGLITE