
INSTRUMENTS

SECTION

15

ALLIED REFRIGERATION INC. EST. 1934
SERVING ALL OF CALIFORNIA AND NEVADA
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Fluke 87V/AEK Advanced Electronic Kit



Fluke has combined the best selling feature packed 87V Multimeter with the TL81A test lead set for the complete solution to electronic circuit board troubleshooting. Together they provide the ability to probe and troubleshoot even the most densely populated circuit boards more efficiently by providing all the needed accessories a professional electronic engineer would require.

Kit Includes:

- Fluke 87V - True RMS Multimeter
- TL81A - Deluxe Electronic Test Lead Kit
- C115 - Soft Carrying Case

PART#

87V/AEK

True RMS Multimeter



- 6000 Count Display Provides Better Resolution
- 0.09% Basic DC Accuracy (Fluke 179)
- True-rms AC Voltage and Current Measurement for Accurate Readings on all Waveforms
- Min/Max/Average Records Irregular Activity
- Auto and Manual Hold
- Frequency, Capacitance and Resistance Capabilities
- Fluke 179 Has a Backlight to Illuminate the Screen in Dark Workspaces
- The Fluke 179 Measures Temperature in °C and °F (Thermocouple Included)
- IEC 1010 CAT IV 600V, CAT III 1000V Safety Ratings

PART#

175

179

Automatic Precision Pocket Multimeter



- Simple one button, one switch interface
- Autoranging 6000 counts
- AC/DC volts, 600V
- AC/DC current, 2000 μ A
- Frequency
- Capacitance
- Continuity
- Silicone holster
- Zippered carrying case

PART#

PM55

DESCRIPTION

Pocket Multimeter

VoltAlert - Voltage Detector



- Voltbeat™ technology and continuous self-test - so you always know it's working
- Upon detection, tip glows and beeper sounds
- CAT IV 1000 V for added protection
- Expanded range: 90 V to 1000 V AC or 200 V to 1000 V AC depending on model
- 20 V to 90 V AC control circuit model also available

PART#

1AC-II

1LAC-II

DESCRIPTION

Electrical Tester

Low Voltage Electrical Tester

Volt Light



Non-contact AC voltage detector and LED flashlight combined in one convenient, compact design. With exclusive dual-sensitivity. The voltage detector glows blue when it's near AC voltage, and glows red when it's at the source. Detects voltages from 40 V AC to 300 V AC. Voltage detector glows blue 50 Hz - 60 Hz or 2.5 - 38 cm (1 - 5") away from source. Operating temperature 0 °C to 50 °C. Ultra-bright white LED with 100,000 hour bulb life. AAA battery included.

PART#

LVD1

DESCRIPTION

Volt Light

Clamp Meter - FLUKE 322



- Autoranging
- Temperature: -40 to 750°F (500°F with supplied probe)
- AC Amps: 0-40A, 40-400A
- Volts AC: 0-400V, 400-600V
- Volts DC: 0-400V, 400-600V
- Resistance: 0-400.0 Ω
- Includes: (2) AA batteries, soft carrying case and test leads
- Warranty: 2 Years

PART#

322

Clamp Meter



- Small body and jaws fit perfectly in your hand and into tight places
- Handy 'Display Hold' button keeps measurements on the display
- Meter controls are positioned so current measurements can be done with one hand (index finger on clamp opening lever and thumb on rotary switch)
- Large, backlit display is easy-to-see in less than ideal conditions
- In-rush current function (on most models) for measuring starting current for motors, lighting, etc.
- Auto shut-off maximizes battery life so the meter works when you need it
- Improved low current measurement accuracy from new microprocessor technology
- Five different models to meet your exact needs

PART#	VOLT MAX.	AMPS	RESISTANCE Ω
333	600	400	600
335	600	600	6000
336	600	600	6000

Clamp Meter - FLUKE 322



- Designed for HVAC applications with capacitance, DC Current (μA), and temperature measurements
- Small body and jaws fit perfectly in your hand and into tight places
- Handy 'Display Hold' button keeps measurements on the display
- Meter controls are positioned so current measurements can be done with one hand (index finger on clamp opening lever and thumb on rotary switch)
- Large, backlit display is easy-to-see in less than ideal conditions
- Auto shut-off maximizes battery life so the meter works when you need it

PART#

902

T5 Voltage, Continuity and Current Tester



- Automatically measures volts ac and volts dc with precise digital resolution
- Displays resistance to 1000Ω
- Easy and accurate OpenJaw™ current measurement
- Continuity beeper
- Compact design with neat probe storage
- Rugged enough to withstand a 10-foot (3m) drop
- Detachable SlimReach™ probe tips are customized for national electrical standards
- Test leads accept Fluke accessory test clips
- Available in 600V and 1000V models
- Can stay connected much longer than solenoid type tester
- Auto off mode to conserve battery life
- Optional holster attaches to a belt and neatly stows test leads

PART#

DESCRIPTION

T5 Electrical tester with OpenJaw™ Current

Electrical Tester Holster



- Rugged fabric holster includes flap for lead storage and built-in belt loop
- Fits Fluke T3 and T5 testers

PART#

DESCRIPTION

H5 Electrical Tester Holster (Fluke T3/T5)

Infrared Thermometer - HVACPro



- IR thermometer for quick measurements up close or at a distance, without a ladder
- Compatible with all standard mini-connector K-type thermocouples
- Velcro pipe probe for superheat, sub-cooling or other contact and ambient measurements
- Single-point laser sighting
- Temperature range optimized for HVAC/R applications
- Easy emissivity adjustment for measuring pipes and ducts more accurately
- Lightweight (only 340 grams (12 ounces)) and portable
- Very easy to use
- Efficient – no need to shut down equipment when making IR measurements
- MIN, MAX and DIF temperature readings help you quickly identify problems
- Scan large areas or small objects quickly and efficiently
- HVAC/R measurement guide included to maximize your productivity

PART#

561

Handheld Infrared Thermometer



- Single point offset laser sighting
- Best accuracy in its class: + 1% of reading
- Holds temperature readings for 7 seconds
- Dual displays shows current and MAX measurements simultaneously
- Backlit display for poorly lit areas
- Comfortable ergonomic handle with protective rubber boot for durability
- Fitted carrying case
- Robust, award winning design
- Wide temperature range from -30° to 500°C (-20° to 932°F)

PART#

62

Infrared Thermometer



PART#

RANGE

ACCURACY

IR610

0° F TP 500° F

3.0%

52 II Thermometer



- Relative time clock on MIN, MAX, and AVG provides a time reference for major events
- Electronic Offset function allows compensation of thermocouple errors to maximize overall accuracy
- Measures J, K, T, and E-types of thermocouples
- Readout in °C, °F, or Kelvin (K)
- Splash and dust resistant case protected by impact absorbing holster
- User-friendly front panel is easy to set up and operate
- Sleep mode increases battery life; typical 1000-hour battery life
- Battery door allows easy battery replacement without breaking the calibration seal
- Optional ToolPak accessory allows the thermometer to hang from any metal object (with the rare earth magnet) or secure around a pipe (with hook-and-loop straps) for hands-free operation.

PART#

52 II

TL220 SureGrip™ Industrial Test Lead Set



KIT INCLUDES:

- AC220 SureGrip™ Alligator Clip Set
- TP220 SureGrip™ Test Probe Set
- TL222 SureGrip™ Silicone Test Lead Set (right to right)

PART#	DESCRIPTION
TL220	SureGrip™ Industrial Test Lead Set

TL75 Hard Point™ Test Lead Set



- One pair (red, black) comfort grip probes with PVC insulated, test leads with right-angle shrouded banana plugs
- Recommended for general purpose measurements
- CAT IV 600 V, CAT III 1000 V, 10 A rating. UL listed

PART#	DESCRIPTION
TL75	Test Lead Set

Alligator Clip Set



- Slide-on alligator clips (red, black) for TL71/TL75
- Jaws provide 8 mm opening
- CAT IV 600 V, CAT III 1000 V, 10 A rating. UL listed

PART#	DESCRIPTION
AC72	Alligator Clip Set

SureGrip™ Hook Clips



- One pair (red, black) of nickel plated clips
- Profile narrows to 5.6 mm at tip, hook opening 6.4mm at front, 2 mm at base
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 3 A rating. UL listed

PART#	DESCRIPTION
AC280	SureGrip™ Hook Clips

SureGrip™ Pincer Clips



- One pair (red, black) of nickel plated pincers open to 5 mm
- 11.4 cm flexible insulated shaft
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 1 A rating. UL listed

PART#	DESCRIPTION
AC283	SureGrip™ Pincer Clips

SureGrip™ Alligator Clips



- One pair (red, black) of small, insulated, nickel plated jaws
- Blunt tip grabs round screw heads up to 9.5 mm
- Recommended for use with TL222 and TL224 test leads
- CAT IV 600 V, CAT III 1000 V, 10 A rating. UL listed

PART#	DESCRIPTION
AC220	SureGrip™ Alligator Clips

Carbon Monoxide Probe



The Fluke CO-210 Carbon Monoxide Probe is an accessory for use with a digital multimeter with dc millivolt inputs. The CO-210 utilizes the newest generation of electro-chemical sensors (fast responding) and an intelligent microprocessor to provide higher accuracy and reliability. Use the CO-210 as an accessory to your digital multimeter for a display of carbon monoxide levels, or as a stand-alone indicator by relying upon the "sun-bright" LED and beeper which trigger with increasing frequency as the levels of CO rise.

PART#	RANGE	RESOLUTION	ACCURACY
CO-210	0 to 1000 ppm	1 ppm	5%

Thermocouple Adapter



- Adapts Type-K thermocouple mini-connector to dual shrouded banana plug inputs
- Measurement range and accuracy: probe dependent
- Suitable for low voltage applications (below 30 V AC, 60 V DC)

PART#	DESCRIPTION
80AK-A	Thermocouple Adapter

Universal Temperature Probe



- Compatible with Fluke DMM
- High accuracy, fast reading for low voltage (below 24 V AC, 60 V DC) applications
- Measurement range: -50 to 150°C
- Output: 1 mV/°C or 1 mV/°F (switchable)

PART#	DESCRIPTION
80T-150U	Universal Temperature Probe (for DMMs)

Thermocouple Module



- Converts a DMM to a thermometer
- For use with type-K thermocouples in low voltage applications (below 24 V AC, 60 V DC)
- Measurement range: -50 to 1000°C (probe dependent)

PART#	DESCRIPTION
80TK	Thermocouple Module (Type K)

Bead Probe



- Type-K thermocouple for general purpose applications
- Measurement range: -40 to 260°C

PART#	DESCRIPTION
80PK-1	Bead Probe (Type K)

SureGrip™ Immersion Temperature Probe



- Type-K thermocouple for use in liquids and gels
- Measurement range: -40 to 1090°C

PART#	DESCRIPTION
80PK-22	Immersion Temperature Probe

Surface Probe



- Type-K thermocouple for flat or curved surfaces such as plates and rollers
- Measurement range: 0 to 260°C

PART#	DESCRIPTION
80PK-3A	Surface Probe (Type K)

SureGrip™ Air Temperature Probe



- Type-K thermocouple for use in air and non-caustic gas measurements
- Bead protected by perforated baffle
- Measurement range: -40 to 816°C

PART#	DESCRIPTION
80PK-24	Air Temperature Probe

SureGrip™ Tapered Temperature Probe



- Type-K thermocouple with tapered tip for use in air, non-caustic gas and surface applications
- Measurement range: -40 to 816°C

PART#	DESCRIPTION
80PK-26	Tapered Temperature Probe

Pipe Clamp Temperature Probe



- Type-K thermocouple for fast temperature and superheat measurements of pipe surfaces
- Durable ribbon sensor
- Measurement range: -29 to 149 °C for pipe diameters from 6.4 to 34.9 mm

PART#	DESCRIPTION
80PK-8	Pipe Clamp Temperature Probe

Meter Holster



- Snap-on yellow holster absorbs shocks and protects meter from rough handling
- Includes built-in stand and hanger loop

PART#

C10

Meter Holster



- Snap-on holster absorbs shocks and protects meter from rough handling
- Y for yellow colour
- Flex Stand™ allows meter to hand, lean or stand for convenience and best viewing
- Built-in probe and lead storage

PART#

C70Y

Soft Meter Case



- Zippered carrying case with inside pockets and belt loop

PART#

C12A

Hard Meter Case



- Heavy duty case with carrying handle and accessories storage compartment.
- Top cover snaps onto back to serve as tilt stand.

PART#

C20

Large Soft Case for DMMs



- Zippered carrying case with padding and inside pocket.

PART#

C25

Meter Case



- Zippered carrying case with inside pocket belt loop and inside meter strap.

PART#

C50

630 mA/250V FUSE



PART#	NOM. CURRENT	MAX VOLT TO GROUND
871173	630 MA	250 V

2 A/250V FUSE



PART#	NOM. CURRENT	MAX VOLT TO GROUND
871178	2 A	250 V

11A 1000V Fuse



PART#	DESCRIPTION
11A	1000 Volt

440MA 1000V Fuse



PART#	DESCRIPTION
440MA	1000 Volt

FIELDPIECE INSTRUMENTS

Stick Style Meters



Every HS30 series meter comes packaged inside the padded ANC1 4-pocket case. A 300AAC clamp head (ACH) is included. Just slide the clamp onto the top of the HS30 meter to read amps. Also included are deluxe silicone test leads, alligator clips, k-type thermocouple (HS33, HS35, HS36), battery (installed), operator's manual, and RFM66 fuse (installed).

Specifications					
Function	Range	Accuracy/Resolution	HS33	HS35	HS36
True RMS					X
Ranging			Manual	Auto	Auto
Counts			2000	4000	4000
Bargraph				X	X
Backlight					X
VAC	200m	1.2%+3/0.1m	X	D	D
	2000m	1.2%+3/1m		D	D
	40	1.2%+3/0.01		X	X
	200	1.2%+3/0.1	X	D	D
	600	2%+5/1	X	D	D
VDC	200m	0.5%+1/0.1m	X	D	D
	2000m	0.5%+1/1m	X	D	D
	20	0.5%+1/0.01		D	D
	200	0.5%+1/0.1	X	D	D
	600	0.5%+1/1		X	X
AAC	200	2.5%+2	A	A	A
ADC	400μ	1%+1/0.1μ		X	X
	4000μ	1%+1/1 μ		X	X
°F	200°F	1°F/0.1	X	D	D
	1000°F	1°F/1		X	X
MFD	200	3%+5/0.1m	X	D	D
Hi-V indicator		>30V	C	C	C
NCV		>24VAC	C	C	C
Ohms	200	1%+4/0/1	X	D	D
	4K	1%+4/1		X	X
	40K	1%+4/10		X	X
	200K	1%+4/100	X	D	D
	4M	1.5%+4/1K		X	X
	20M	3%+5/10K		D	D
Continuity			C	C	C
Diode			X	X	X
HZ				X	X

- A. With ACH clamp head
- B. Beeper
- C. LED and beeper
- D. Range is 40XX, instead of 20XX

PART#

HS32
HS33
HS35
HS36

Mini Clamp Meters



SC44 is the basic clamp meter with NCV in a size that easily fits on a tool belt or in a tool case. SC45 adds temperature and capacitance. SC46 adds true RMS and backlight.

Function	Range	Accuracy/ Resolution	SC44	SC45	SC46
Ranging			Auto	Auto	Auto
Counts			4000	4000	4000
Backlight					*
True RMS					*
VAC	400m	1.2% + 5/0.1	*	*	
	4	1.2% + 8/0.001	*	*	*
	40	1.2% + 8/0.01	*	*	*
	400	1.2% + 8/0.1	*	*	*
	600	1.5% + 8/1.0	*	*	*
VDC	400m	0.5% + 2/0.1	*	*	
	4	0.5% + 2/0.001	*	*	*
	40	0.5% + 2/0.01	*	*	*
	400	0.5% + 2/0.1	*	*	*
	600	0.5% + 2/1.0	*	*	*
AAC	40	2.0% + 10/0.01	*	*	*
	400	2.0% + 10/0.1	*	*	*
?F	-30-400	1°F/0.1 (32-120°F)		*	*
MFD	4	3.0% + 10/0.001		*	*
	40	3.0% + 5/0.01		*	*
	400	3.0% + 5/0.1		*	*
	4000	5.0% + 20/1.0		*	*
Ohms	400	1.0% + 4/0.1	*	*	*
	4K	1.0% + 4/0.001	*		
	40K	1.0% + 4/0.01	*		
	400K	1.0% + 4/0.1	*		
	4M	1.5% + 4/0.001	*		
	40M	3.0% + 5/0.01	*		
NCV LED and beeper	>24VAC		*	*	*
Continuity			*	*	*
Diode			*		

PART#

SC44
SC45
SC46

15

INSTRUMENTS

FIELDPIECE INSTRUMENTS

Air Velocity with Temperature Head



Measures air velocity. Use to estimate CFM. Does not replace a hood for precision CFM measurements.

Air velocity:

Ft/min, meters/sec, MPH, KM/hr.
Range: 80 to 5900 ft./min.
Accuracy: +/-3%fs+1dgt.

Temperature:

Displays °F and °C.
Range: -4°F to 140 °F.
Accuracy: +/-1°F from 32°F to 113°F.
Resolution: 0.5°F.

Max operating temp: 120°F.

Output: 1mV/unit of measure (1mV/100ft/min above 2000 fpm).

PART#

SC52

Deluxe Silicone Test Leads



- High copper stranding, silicone insulated test leads.
- Basket style strain relief.
- Removable probe tips.
- Fit in test lead holders on back of SC series clamp meters and HS30 series stick meters.

PART#

ADLS2

HVAC Guide

Guided Probe Tester

Head Attachments



- Easy to use INPUT/OUTPUT forms to collect and analyze data.
- Use Fieldpiece accessory heads to automatically enter data
- Manually enter data using non-Fieldpiece test equipment.
- Download test data to a PC.
- Reload test data when returning to the same customer.
- Easily print work orders for better customer service.

TEST	MEASUREMENT	ATH4	ASX14	AOX2	ACM3*	ADMN2	ATWB1	ATB1	ATC1	ATBF1
Target Evaporator Exit Temp	Return Dry Bulb	•						•		
	Return Wet Bulb	•					•			
	Supply Dry Bulb	•						•		
Superheat	OD Dry Bulb	•						•		
	ID Wet Bulb	•					•			
	SL Pressure		•							
	SL Temp		•						•	
Subcooling	LL Pressure		•							
	LL Temp		•						•	
Combustion	O2			•						
	Flue Temp			•						•
	CO				•					
	Primary Temp		•							•
Check Me! (model HG2)	Return Dry Bulb	•						•		
	Return Wet Bulb	•					•			
	Supply Dry Bulb	•						•		
	Sup Plen Press					•				
	Ret Plen Press					•				
	SL Pressure		•							
	SL Temp		•						•	
	LL Pressure		•							
	LL Temp		•						•	
	Condenser Air Enter Temp	•							•	

PART#

HG2

Phoenix Series Clamp Meter



Features

- True RMS • Detachable clamp head
- 750V AC / 1000V DC
- 400AAC
- 2000 μ AAC / DC
- 40M Ω Resistance / Continuity
- 4000 μ F Capacitance
- -40 ~ 752°F Temperature (K type)
- Frequency / Duty Cycle
- μ A for Flame Safeguard
- Non-Contact Voltage
- Diode
- MIN / MAX display
- Worklight
- Magnetic mount
- Dual display with backlight
- Test lead storage
- Test lead holder on clamp head
- Data hold
- Auto off

The DL289 Phoenix series offers the highest combination of functions, features, and safety offered in a meter today. Combined with The Hook extended clamp head, no contractor will have to compromise their safety, efficiency, or comfort.

PART#

DL289

DM383B



- 750 Volts AC and 1000 V DC CATII
- CAT III rated at 600V AC / DC
- 10 Amps AC and DC
- Resistance to 40 Megohms
- Diode check function
- Continuity
- Max capture mode
- Data hold
- Battery: 9V Included
- Warranty: Five Year

PART#

DM383B

COMBUSTION ANALYZER

C75KIT W/PRINTER



- Measure: Flue Temp., Oxygen & Carbon Monoxide
- Calculates: Carbon Dioxide Gross/Net Eff., Excess Air & CO Air Free
- KMIRP2 Infrared Printer
- AAC4 AC Adapter
- AC73 Soft Carrying Case
- Particle Filter (1) 17631
- Thermal Paper Roll (1) #16646

PART#

C75KIT

Carbon Monoxide Analyzer



- Measure CO (0 to 1999 ppm)
- Internal pump pulls sample from flue or ambient air
- CO Accurate to $\pm 5\%$ of reading
- Temperature measurement
- Auto-zero at power up
- Included: Flue probe and flexible hose
- Warranty: Three Year (Two Years on Sensor)

PART#

CO91

Carbon Monoxide Analyzer



- Displays CO level (in ambient air) from 0 to 999 ppm
- Audible alert triggers at 35 ppm indicating the threshold of dangerous concentration
- MAX continually updates to provide recall of the highest CO reading
- Auto Zero activates upon power up
- Warranty: Three Year (One Years on Sensor)

PART#

CO71A

Electronic Manometer



- Single input to measures positive and negative pressure to ± 20 " wg
- Ruggedized, including rubber boot with integral magnet
- Simple two-button operation
- Auto power-off
- Battery: AAA (3) Included
- One year limited warranty

PART#

EM150

SL Series Miniature Data Loggers



Features/Benefits

- Windows™ 98SE, ME, 2000, XP and above compatible software (included) Not compatible with Windows™95 or NT
- PC, delayed start or push button recording control
- Temperature and Humidity alarm with visual indication on demand
- User selectable stop on memory full or memory rollover for continuous recording
- Real time monitoring
- View graph and text simultaneously
- Can calibrate through software
- Displays temperature in °F or °C
- USB Interface standard
- **Sample Point:** 43,344 for Temperature only. 21,672 for Temperature, Humidity and Dew Point
- **Sample Rate:** 1 second to 18 hours
- **Alarms:** High and low temperature and humidity alarms w/visual indication on demand
- **Range:** -40°F to 160°F

PART#

SL300T

SL300TH *w/ Humidity

SL Series Miniature Data Loggers



- One Internal and One External Temperature Measurement, Simultaneously
- **Sample Point:** 21,500 points (Single channel) 10,750 points and differential (Dual channel)
- **Sample Rate:** 1 second to 18 hours
- **Alarms:** Over and under alarms for each probe.
- **Range:** -40°F to 150°F (External sensor -40°F to 150°F) w/ Lithium Battery

PART#

LT2

LTT Dual Temperature Logger



- 2 Independent External Temp. Measurements & Temp. Differential
- **Sample Point:** 21,500 temperature points (1 probe) 10,750 temperature points and differential (2 probes)
- **Sample Rate:** 1 second to 18 hours
- **Alarms:** Over and under alarms for each probe.
- **Range:** -50°F to 300°F

PART#

LT2

LTH Temperature and Humidity Logger



- Integral Temperature, Humidity and Dew Point Measurements
- Sample Point: 21,500 for temperature only 10,750 points for Temperature, Humidity and Dew Point
- Sample Rate: 1 second to 18 hours
- Alarms: Over and under alarms for temperature & humidity.
- Range: -40°F to 150°F w/ Lithium Battery

PART#

LTH

LLS LOGiT PC Software and Interface for Serial Connection



- PC Software on CD ROM
- LINT Interface
- Cable for LOGiTs to Serial Port (CABLE6B)

Benefits/Specifications

- Compatible with Windows 95 and above
- Graphic and Text Data
- 3 Memory modes: Stop on full, record continuously, or memory rollover
- Real time monitoring
- Password protected calibration of each channel
- Data exportable to Text or Excel
- Maximum Serial Interface 50 feet.
- Minimum System Requirements: 8MB RAM, 2MB Disk Space, 800 x 600 Resolution, COM port or USB port (Optional USB Interface required)

PART#

LLS

Magnehelic® Differential Pressure Gages



Magnehelic® Pressure Gage has a large, easy-to-read 4" dial.
*Calibrated for vertical scale position

ACCESSORIES

A-432: Plastic carrying case for Magnehelic® gage of standard range, except high pressure connection, includes 9 ft (2.7m) of 3/16" ID rubber tubing, stand-hang bracket & terminal tube with holder.

A-605: Air filter kit - adapts any standard Magnehelic® gage for use as an air filter gage. Includes aluminum surface mounting bracket with screws, (2) 5 ft (1.5 m) lengths of 1/4" aluminum tubing, (2) static pressure tips & (2) molded plastic vent valves.

PART#	DESCRIPTION
2000-00n*	range .05-0-.2" w.c., minor divisions .005
2000-0*	range 0-0.25" w.c., minor divisions .005
2001	range 0-1.0" w.c., minor divisions .02
2002	range 0-2.0" w.c., minor divisions .05
2005	range 0-5.0" w.c., minor divisions .10

Gage Fluids



Gage fluids in the 3/4 ounce size are furnished in unbreakable plastic dispenser type bottles.

PART#	DESCRIPTION
A-101	3/4 oz dispenser bottle of red gage oil, .826 sp. gr.

Static Pressure Sensors



PART#	DESCRIPTION
A-301	for 1/4" metal tubing connection
A-302	for 3/16" and 1/8" ID plastic or rubber tubing
A-303	Portable, for 3/16" ID rubber or plastic tubing with 4" insertion

Flush Mount Kit for Magnehelic® Gages



PART#	DESCRIPTION
A-464	flush mount kit

460 Air Meter



Direct Reading Instrument Used for Both Air Velocity and Static Pressure Tests

PART#	DESCRIPTION
460	Air meter, complete kit.

Air Velocity Meter



Precision vane type anemometer provides fast, accurate air velocity measurements for use in balancing HVAC systems or determining CFM calculations. A convenient type K thermocouple is built-in to the remote vane providing quick measurement of grille/duct outflow temperatures from 32° to 122° F. Included, is an easy-to-read laminated conversion chart that allows the user to quickly convert air velocity measurements into CFM calculations at a glance.

PART#
AM50

MISCELLANEOUS TESTERS

Zebrastat



- Performs immediate continuity checks on up to six circuits at a time
- Acts as a remote control, saving you steps from attic, roof, or basement
- Reports signal levels on control lines - visually displaying them
- Monitors voltage levels, displaying it as OK - Questionable - or Low
- Will act as an automatically-resetting circuit breaker, temporarily replacing a system fuse while looking for 'shorted' lines or components

PART#

DESCRIPTION

ZS-2 Single, Multi-Stage, Residential and Commercial Systems

Variable Speed Zebra



The VZ-7 is a microprocessor-controlled diagnostic tool that performs sophisticated testing with only 4 switches. With it, a Tech will be able to:

- Visually monitor signal calls from the furnace/air handler circuit boards.
- Interrupt those signals and send the motor any signals you desire, to observe motor operation
- Get a visual display of motor RPM and the calculated CFM (most systems)
- Get a visual readout of all 4 system "taps". These selections help set up a system correctly
- Get a direct readout of the control voltage in the motor (low voltage here causes erratic operation)
- And finally, IF a problem is traced to the motor, one switch press starts an automatic analysis to clearly indicate if the problem is in the motor's electronics, or one of 7 possible winding problems.

PART#

DESCRIPTION

VZ-7 Single, Multi-Stage, Residential and Commercial Systems

Zebrastat



The HA1 analyzes and tests hermetic compressors at up to 25 amps of running current. Connects directly to the compressor motor eliminating the refrigeration system start capacitor.

Features

- 3 Ranges of 250 VAC starting capacitors between 88-301 MFD
- Dual voltage operation of 120/240 VAC
- Indicates continuity & ground faults in motor windings with LED lights
- Free locked rotors by reversing motor action
- Convenient breakout jacks for measuring voltage and resistance
- Three year limited warranty

PART#

HA1

M500 Insulation Tester/Electronic Megohmmeter



An inexpensive alternative to expensive taut band (swing needle) megohmmeters, the M500 provides fast and accurate measurements to verify the condition of insulation.

Specialty Instrument Selection Guide

- Measurement/Function - Insulation Resistance
- Range - 20 to 1000 megohms

Features/Benefits

- Measure insulation values up to 1000 megohms @ 500 VAC
- Zone scale to indicate insulation condition
- Hand held
- Test Leads store in case
- Operates on 2 C batteries (not included)
- Impact resistant
- Soft carrying case included

PART#

M500

MFD10 Digital Capacitor Tester

With it one hand operation, the MFD provides the fastest measurements for capacitor values.

Specialty Instrument Selection Guide

- Measurement/Function - Capacitance
- Range - 0.01 to 10,000 MFD



Features/Benefits

- Range 0.01 to 10,000 mF
- Accuracy $\pm 5\%$
- Test clip storage within case
- Alligator clips to capacitor terminals
- LED display
- One button operation
- Operates on one 9V Battery (not included)
- Soft carrying case included

PART#

MFD10

007 Control Checker



A lifetime tool for monitoring and checking safety controls and operating controls. One unit for all voltages 24-460 VAC or DC without switching dials or meters. Compact, 4 oz, reliable. Saves troubleshooting. For normally closed controls, 007 connects in parallel with safety control. When the safety control opens in response to a problem in the system, 007 red LED turns on and remains on until reset manually. With intermittent problem, the LED remains on indicating the control is open. For operating controls, 007 verifies the status of all types indicating if there is power to the holding coil, the NC contact is open or closed, the thermostat contacts are open or closed, there is power to the contactor or starting holding coil, the overloads are open or closed, or there is a bad connection either on control or power side. NOTE: May use with lockout relays. Features battery check and reset switch. Includes 9-volt battery. 007 may be used over and over. U.S. Pat. No. 4,092,625.

PART#

TC-007

SRH77A Humidity/Temperature/Wet Bulb Instrument



The SRH77A features include a backlight display for dark environments, sealed keypad which protects the instrument from spills and dust, and a battery eliminator jack. It is 3-zone. It has Min/Max memory and Scan mode. The auto shut-off begins after 15 minutes of non-use or continuous ON mode. It features temperature differential between zones 1 and 2, %RH and wet bulb.

The SRH77A Includes: Model 1075 General Purpose Puncture Probe, Model 4011 Pipe Strap Probe, and Model 5028 Humidity Probe.

PART#

SRH77A

460 Slimline Infrared

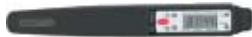


The 460 Slim-Line Infrared non-contact Thermometer is easy to use. Just aim at the object, press the button and read the surface temperature in 1 second or less! The 460 is lightweight and ergonomically designed. It has a laser sight and a Distance to Spot ratio of 8 to 1.

PART#

460

DRH122 Thermo-Hygrometer Pen



Measure and display environment temperatures and humidity readings in a matter of seconds with this compact Thermo-Hygrometer pen. Designed for simplicity and one-handed operation features include Min/Max memory and switchable F/C.

PART#

DRH122

4005I Cordless Pipe Clamp



Perfect tool to measure pipe surface temperatures and/or take measurements of liquids/solids quickly and easily without a lot of equipment with the same instrument. Can be used on pipes with diameters of 1/4" to 1-3/8". It features a cordless pipe clamp with a 2.5" retractable general purpose probe. It includes a Nylon belt pouch.

PART#

4005I

SAMPLE POINT

1 second to 18 hours

M500 Insulation Tester/Electronic Megohmmeter



Features:

- HIGH ACCURACY & FAST RESPONSE
- Temperature
- Dew point
- Humidity
- Wet and dry bulb
- Min/Max memory
- Auto power off
- F/C switch
- Data hold
- Protective cap with pocket clip

Specifications:

- Temperature range: -4°F to 122°F
- Humidity range: 0 to 100% RH
- Temperature accuracy: ±1.8°F
- Humidity accuracy: ±5%
- Wet bulb readings in 5 seconds
- Electronic capacitive sensor with microprocessor

Supplied With:

- Batteries
- Protective cap with pocket clip

PART#

SAM990DW

M500 Insulation Tester/Electronic Megohmmeter



The CHECK-IT Model 0613 Digital Superheat Set allows you to accurately and quickly charge air conditioning systems where superheat readings are required. Armed with such accurate readings you can instantly determine whether a system is properly charged. With a temperature range of -100°F to 1000°F, the CHECK-IT 0613 comes in a high impact 7-1/2" x 10" x 3-3/4" carrying case allowing for storage of the three included 15' color coded, full range wire probes as well as other optional accessories. It allows readings of (3) individual sensors or differentials between any two of them. The CHECK-IT 0613 Digital Superheat Set is easy to read as it incorporates a large .5" liquid crystal display updated 1.5 times per second.

PART#

0613

ALLIED REFRIGERATION INC.

NOTES

