

# MEASURING INSTRUMENTS

**Marlbo**<sup>®</sup> SINCE 1989





**FLUKE**®

# WHAT'S NEW



**FLUKE iSee™**  
Mobile Thermal Camera



**FLUKE FEV300 EV**  
**Charging Station**  
Test Adapter kit with  
type 2 Connector



**FLUKE Ti480U,**  
**Ti401U, Ti300U**  
Thermal Imagers



**FLUKE 2052 Advance &**  
**Fluke 2062**  
Advanced Pro wire Tracer Kit



**FLUKE TiX1060 &**  
**TiX8xxx Series**  
Thermal Imagers



**FLUKE 802EN**  
Vibration Meter



**FLUKE RSE30/30H &**  
**RSE60/60H**  
Mounted Thermal Imagers



**FLUKE 835**  
Laser belt alignment tool



**FLUKE SMFT 1000**  
Solar Multifunction Tester



**FLUKE 831**  
Laser Shaft Alignment Tool



**FLUKE 1535**  
Insulation Resistance Meter

## POWER QUALITY ANALYZER

**FLUKE 1775**



Power Quality Analyzer

**FLUKE 1736**



Power Logger

## SCOPE METER



**FLUKE 120B SERIES**



**FLUKE 190 SERIES II**

## THERMOMETER

**FLUKE 560 SERIES**



IR and Contact Thermometer



**FLUKE 62 MAX**

Infrared Thermometer

Temperature Range: -30 to 500 °C  
62 Max +: -30 to 650 °C Measurements  
64 max : -30 to 600 °C Measurements

**FLUKE 50 II SERIES**



Lab Accuracy  
Field Thermometer

**FLUKE 572-2**



## DISTANCE METER



**FLUKE 417D**

Range : 40 m

- ◇ 2-line illuminated LCD screen
- ◇ 1-meter drop test
- ◇ Quickly calculate area



**FLUKE 424D**

Range 0.05m to 100m  
Corner Angle  
Measurement

- ◇ Area & Volume
- ◇ 180° inclination sensor for leveling & height tracking



**FLUKE 404E**

Range 40m

- ◇ Area & Volume
- ◇ 0.2 to 40m Electronic Angle Measurement
- ◇ Auto level & height
- ◇ Stores upto 100 sets

## ELECTRICAL TESTER



**FLUKE T6 SERIES**

**FLUKE VOLT ALERT**  
Non Contact Voltage Tester



1 AC - 11  
90 - 1000V  
CAT IV - 1000V

LVD -2  
90 - 600V  
CAT IV - 600V

## EARTH GROUND TESTER

**FLUKE 1625-2**

Advanced 4 Pole Earth  
Ground Measurement

AFC : 94 Hz to 128 Hz  
Stakeless Testing



**FLUKE 1623-2**

Basic Geo Earth Ground Tester

Stakeless Testing



**FLUKE 1630-2**

Maximum Voltage to  
Earth Ground : 1000 V  
Battery type : AA alkaline  
IEC/EN LR6 (x4)  
Battery life : More than 15 hours\*  
Frequency range 40 Hz to 1 kHz

## THERMAL IMAGER

**PTi 120 Pocket  
Thermal Camera**



**FLUKE  
Ti 480 Pro**



**FLUKE TiX580**



## CALIBRATOR

**FLUKE 712B/  
714B/  
724**

Temperature  
Calibrators



**FLUKE  
707/  
705/  
715**

Loop  
Calibrators



**FLUKE  
754/  
753**

Documenting  
Process  
Calibrators



## PHASE INDICATOR

**FLUKE  
9040/  
9062**



## TACHO METER

**FLUKE 931**

Contact measurement:  
1 to 19999  
revolutions/minute  
Optical  
(non-contact)  
measurement:  
1 to 99999 revolutions/minute



# CLAMP METER



## FLUKE 323

ACA : 400 A  
AC V : 600 V  
DC V : 600 V  
 $\Omega$  : 4000  $\Omega$

Jaw Opening : 30mm

**TRUERMS**  
CAT III - 600V  
CAT IV - 300V



## FLUKE 324

ACA : 400 A  
AC V : 600 V  
DC V : 600 V  
 $\Omega$  : 4000  $\Omega$

Jaw Opening : 30mm

**TRUERMS** Backlight  
CAT III - 600V Temperature  
CAT IV - 300V Capacitance



## FLUKE 325

AC/DC A : 400 A  
AC/DC V : 600 V  
 $\Omega$  : 40 k $\Omega$   
Hz : 5-500Hz

Jaw Opening : 30mm

**TRUERMS**  
CAT III - 600V  
CAT IV - 300V



## FLUKE 365

ACA : 200 A  
AC V : 600 V  
DCA : 200 A  
DC V : 600 V  
 $\Omega$  : 6000  $\Omega$

Jaw Opening : 18mm

**TRUERMS**  
CAT III - 600V



## FLUKE 373

ACA : 600 A  
AC V : 600 V  
DC V : 600 V  
 $\Omega$  : 6000  $\Omega$

Jaw Opening : 32mm

CAT III - 600V  
CAT IV - 300V



## FLUKE 374

AC/DC A : 600 A  
AC/DC V : 600 V  
 $\Omega$  : 6000  $\Omega$

Jaw Opening : 34mm

**TRUERMS**  
CAT III - 1000V  
CAT IV - 600V



## FLUKE 375

AC/DC A : 600 A  
AC/DC V : 600 V  
 $\Omega$  : 6000  $\Omega$   
Hz : 500Hz

Jaw Opening : 34mm

**TRUERMS**  
CAT III - 1000V  
CAT IV - 600V



## FLUKE 376

ACA : 1000/2500 A\*  
DCA : 1000 A  
AC/DC V : 1000 V  
 $\Omega$  : 60 k $\Omega$

\*Included Flexible Current Probe : 18"

Jaw Opening : 34mm

CAT III - 1000V  
CAT IV - 600V



## FLUKE 381

ACA : 1000/2500 A\*  
DCA : 1000 A  
AC/DC V : 1000 V  
 $\Omega$  : 60 k $\Omega$

\*Included Flexible Current Probe  
Remote Display

Jaw Opening : 34mm

CAT III - 1000V  
CAT IV - 600V



## FLUKE 353

AC/DC A : 40/400/2000 A  
1400A AC rms

Frequency : 1000Hz

Jaw Opening : 58mm

**TRUERMS**

CAT III - 1000V  
CAT IV - 600V



## FLUKE 355

AC/DCA : 40/400/2000 A  
1400A AC rms

AC V : 600 V  
DC V : 1000 V  
 $\Omega$  : 400 k $\Omega$

Frequency : 1000 Hz

Jaw Opening : 58mm  
CAT III - 1000V  
CAT IV - 600V



## FLUKE 369

(Leakage Clamp Meter)

ACA : 60 A

Jaw Opening : 61mm

**TRUERMS**

CAT III - 600V

**TRUERMS**



## FLUKE 771 / 772

DC A : 20/ 0.001 A(Res)  
DC mA range: 0 to 20, 20 to 100 mA



## FLUKE 773

0 to 20, 20 to 100mA DC mA measurements, DC voltage measurements also available .

# MULTIMETER



## FLUKE 179/177/175

AC/DC A : 10 A  
AC/DC V : 1000 V  
 $\Omega$  : 50 M $\Omega$   
Hz : 100 kHz

True RMS Reading : AC

**CAT III - 1000V**  
**CAT IV - 600V**

Temperature \*179 Only  
CAPACITANCE 10 mF

**TRUERMS**



## FLUKE 87V/83V

AC/DC A : 10 A  
AC/DC V : 1000 V  
 $\Omega$  : 50 M $\Omega$   
Hz : 200 kHz  
Temp : 1090°C\*

True RMS Reading : AC\*  
**CAT III - 1000V**  
**CAT IV - 600V**

CAPACITANCE 10 mF  
TRMS \*87V Only

**TRUERMS**



## FLUKE 27 II/28 II

AC/DC A : 10 A  
AC/DC V : 1000V  
 $\Omega$  : 50M $\Omega$   
Hz : 200 kHz

**(FLUKE 28 II)**

True RMS Reading : AC

Temperature measurement upto 1090 C  
CAPACITANCE 10 mF

**TRUERMS**



## FLUKE 233

(Remote Display)

AC/DC A : 10 A  
AC/DC V : 1000 V  
 $\Omega$  : 40 M $\Omega$   
Hz : 50 kHz  
Temp : 400°C

True RMS Reading : AC

**CAT III - 1000V**  
**CAT IV - 600V**

CAPACITANCE 10 mF/Temp °C

**TRUERMS**



## FLUKE 117/115/113

AC/DC A : 10 A\*  
AC/DC V : 600 V  
 $\Omega$  : 40 M $\Omega$ \*, 60k $\Omega$ #  
Hz : 50 kHz\*

**CAT III - 600V**

CAPACITANCE 10 mF  
TRMS \*115, 117 Only

**TRUERMS**



## FLUKE 116/114

AC/DC A : 200  $\mu$ A\*  
AC/DC V : 600  $\mu$ A\*  
 $\Omega$  : 40 M $\Omega$   
Hz : 50 kHz\*  
Temp : 400°C\*

True RMS Reading : AC

**CAT III - 600V**

TRMS \*116 Only

**TRUERMS**



## FLUKE 1587/1577

Insulation Multi Meter

AC/DC A : 400 mA  
AC/DC V : 1000 V  
 $\Omega$  : 50 M $\Omega$   
Hz : 100 kHz\*  
Temp : 500°C\*

**CAT III - 1000V**  
**CAT IV - 600V**

CAPACITANCE/Temp 10mF/  
Insulation Resistance Test\* - 1587 only

**TRUERMS**



## FLUKE 289/287

AC/DC A : 10A  
AC/DC V : 1000 V  
 $\Omega$  : 500 M $\Omega$   
Hz : 1 MHz  
Temp : 1350°C  
db : 60dB

True RMS Reading : AC+DC

CAPACITANCE 100 mF

**CAT III - 1000V**  
**CAT IV - 600V**

**TRUERMS**

# VIBRATION TESTER



## FLUKE 810



## FLUKE 805

## INSULATION RESISTANCE TESTER



### FLUKE 1550C

Test Voltage : 250/500/1000  
/2500/5000V  
Measuring Range :  
250k $\Omega$  - 1T $\Omega$   
Bargraph Range - 0-1T $\Omega$



### FLUKE 1555

Test Voltage : 250/500/1000  
/2500/5000/10000V  
Measuring Range :  
200k $\Omega$  - 1T $\Omega$



### FLUKE 1507

Test Voltage : 50/100/250/  
500/1000V  
Measuring Range :  
0.01M $\Omega$  - 10G $\Omega$



### FLUKE 1503

Test Voltage : 500/1000V  
Measuring Range :  
0.01 M $\Omega$  to 2000 M $\Omega$

## AIR QUALITY METERS

### FLUKE 985/922 Air Meter

Temperature,  
Air Pressure,  
Air Velocity,  
Flow measurements



### FLUKE 971 Temperature & Humidity meter



### FLUKE 925



## MULTIFUNCTION TESTER

### FLUKE 1662/1663





# FLUKE

1775

## Three-Phase Power Quality Analyzers





# AMPROBE®

## COMPONENT & BATTERY TESTERS



LCR55A Inductance, Capacitance and Resistance Tester



BAT-500 Battery Impedance Tester

## UNDERGROUND PIPE/CABLE LOCATOR SYSTEM



UAT-610



AT-3500  
Underground  
cable locator

## WIRE TRACER



Advanced Wire Trace Kit  
AT-8030



Circuit Breaker Tester  
BT - 250

Voltage Range : 90V → 250V  
Frequency Range : 40Hz → 70Hz

## CLAMP METERS



Voltage Range : 100V → 1000V  
Frequency Range : 20Hz → 10kHz

Power Quality Clamp Meters  
ACDC-54NAV



AC Voltage : 0 → 600V  
Accuracy :  $\pm 1.0\% + 5\text{LSD}$  (50 to 60 Hz)  
DC Voltage : 0 → 600V  
Accuracy :  $\pm 1.0\% + 5\text{LSD}$   
AC Current (TRMS) Range : 0 to 600A  
DC Microamps : 0 to 2000  $\mu\text{A}$   
Capacitance : 200  $\mu\text{F}$ , 2500  $\mu\text{F}$   
Diode Test : 0 to 3000V  
Temperature : -40 to 752°F, -40 to 400°F

Dual Display 600A TRMS  
Clamp Multimeters  
ACD 14 PRO



AC Voltage : 4V, 40V, 400V, 600V  
DC Voltage : 400mV, 4V, 40V, 400V, 600V  
Frequency : 40Hz → 400Hz with jaw  
10Hz → 100kHz with test leads

Dual Display Digital  
Clamp Multimeters ACD-14 Plus



AC Frequency : 15Hz to 1kHz  
Limit Judgement : 0.25mA, 0.5mA, 3.5mA  
10mA, 12mA

Leakage Current Clamp  
ALC - 110

## DIGITAL METERS



AC/DC Voltage : 400mV, 4V, 40V,  
400V, 600V  
Frequency : 400Hz, 4kHz, 40kHz,  
400kHz and 1MHz

PM Series Pocket Multimeters  
PM51A

# THERMOMETERS



THWD-5 Relative Humidity and Temperature Meter with Bulb and Dew Point



TH-1 Compact Probe Style Relative Humidity Meter

Temperature Range  
-20°C to 50°C  
Relative Humidity 0 -100%



TMD-56 Thermometer



TR200-A Temperature/Relative Humidity Data Logger



TR300 Temperature/Relative Humidity Data Logger

# ENVIRONMENT TESTERS & LEAK DETECTORS



LM-100 and LM-120 Light Meters



LM-200LED Light Meter



SM-10 and SM-20-A Sound Meter



MT-10 Moisture Meter



TACH 10, TACH20 Combo Tachometers



CO2-100 Handheld Carbon Dioxide Tester



CO2-200 Wall-Mounted Carbon Dioxide Meter



RLD-1 Refrigerant Leak Detector



TMA40A Datalogging Anemometer



TMA-10A Anemometer, with Flexible Precision Vane

# ELECTRICAL TESTERS



High Volatage Detector  
TIC 300 Pro



Milliohmmeter  
MO-100



**KYORITSU POWER QUALITY ANALYZER**



F1

F2

F3

F4

Logging

START /STOP

W/Wh



QUALITY

SETUP



PRINT SCREEN

KEY LOCK

DATA HOLD



RESET

ESC

KEW 6315



*Quality and reliability is our tradition*

**KYORITSU**

# MULTIMETER



## KYORITSU 1109S

(Analogue)

DC A : 250 mA  
 AC V : 1000 V  
 DC V : 1000 V  
 $\Omega$  : 20 M $\Omega$   
 Decible db



## KYORITSU 1110

(Analogue)

DC A : 300 mA  
 AC/DC V : 600 V  
 $\Omega$  : 300 k $\Omega$

°C/°F **CAT II - 600V**  
**CAT III - 300V**



## KYORITSU 1009

AC/DC A : 10 A  
 AC/DC V : 600 V  
 $\Omega$  : 40 M $\Omega$

°C/°F/Hz/Hz

**CAT III - 300V**



## KYORITSU 1011/ 1012

AC/DC A : 10 A  
 AC/DC V : 600 V  
 $\Omega$  : 60 M $\Omega$   
 Temp : -50 to 300°C  
 (1011 only)

°C/°F/Hz/Hz/Hz **CAT II - 600V**  
**CAT III - 300V**

## KYORITSU 1030

AC V : 600 V  
 DC V : 600 V  
 $\Omega$  : 40 M $\Omega$

°C/°F/Hz/Hz/Hz

**CAT III - 600V**



## KYORITSU 2000A/2001A

2000A

AC/DC A : 60 A / 100 A

2001A

AC/DC V : 100 V

$\Omega$  : 34 M $\Omega$

°C/°F/Hz

**CAT II - 600V**  
**CAT III - 300V**



## KYORITSU 1051/1052/ 1061/1062

AC/DC A : 10 A  
 AC/DC V : 1000 V  
 $\Omega$  : 60 M $\Omega$ \*/ 50 M $\Omega$ #  
 Hz : 100 kHz

**CAT III - 1000V**

**CAT IV - 600V**

\*1051, 1052 Only

#1061, 1062 Only



## KYORITSU 2012RA

AC/DC A : 120 A

AC/DC V : 600 V

$\Omega$  : 60 M $\Omega$

°C/°F/Hz/Hz/Hz

**CAT II - 600V**  
**CAT III - 300V**



## KYORITSU 5711 VOLTAGE DETECTOR

90 - 1000 VAC



## KYORITSU 1021R

AC/DC A : 10 A

AC/DC V : 600 V

$\Omega$  : 40 M $\Omega$

**TRUE RMS**

°C/°F/Hz

**CAT III - 600V**  
**CAT IV - 300V**



# CLAMP METER



## KYORITSU 2033

AC A : 300 A  
DC A : 300 A  
Jaw Opening : 24mm

CAT III - 300V



## KYORITSU 2046R

AC/DC A : 600 A  
AC/DC V : 600 V  
 $\Omega$  : 60 M $\Omega$   
Hz : 10 kHz  
Jaw Opening : 33mm

**TRUERMS**  
CAT IV - 600V



## KYORITSU 2055/ 2056 R

AC/DC A : 1000 A  
AC/DC V : 600 V  
 $\Omega$  : 60 M $\Omega$   
Hz : 10 kHz  
Jaw Opening : 40mm

**TRUERMS** 2056 R Only  
CAT IV - 600V



## KYORITSU 2300R

Fork Current Tester

AC A : 100 A  
DC A : 100 A  
Conductor Size : 10mm

**TRUERMS**  
CAT III - 300V



## KYORITSU 2431

Leakage Clamp Meter

AC A : 20/  
200 mA/  
200 A

Jaw Opening : 24mm

CAT III - 300V



## KYORITSU 2413F/ 2413R

Leakage Clamp Meter

AC A : 1000 A  
Jaw Opening : 68mm

**TRUERMS** 2413 R Only  
CAT III - 300V



## KYORITSU 2433/ 2433R

Leakage Clamp Meter

AC A : 40/ 400 mA/  
400 A  
Jaw Opening : 40mm

**TRUERMS** 2433 R Only  
CAT III - 300V



## KYORITSU 2432

Leakage Clamp Meter

AC A : 4/ 40 mA/ 100 A

Jaw Opening : 40mm

CAT III - 300V

## KYORITSU 2204R

AC A : 400 A

**TRUERMS**

CAT III - 1000V  
CAT IV - 600V



## KYORITSU 2434

Leakage Clamp Meter

AC A : 400 mA/ 4/ 100 A  
Jaw Opening : 28mm

CAT III - 300V



## KYORITSU 2010

AC A : 20 A/ 0.1 mA(Res)  
DC A : 20/ 0.001 A(Res)



## KYORITSU 2007R/ 2117R

AC A : 1000 A  
AC V : 600 V  
DC V : 600 V  
 $\Omega$  : 600 K $\Omega$

resistance: 600k $\Omega$  2117R  
resistance: 6k $\Omega$  2007R

CAT III - 600V  
CAT IV - 300V

**TRUERMS**

**NCV**

(2117R only)





**KYORITSU 2500**  
DC Milliamp Clamp Meter  
DC A : 120 mA  
Jaw Opening : 6mm  
**CAT II - 300V**



**KYORITSU 2002PA**  
AC A : 2000 A  
AC V : 750 V  
DC V : 1000 V  
 $\Omega$  : 400 k $\Omega$   
Jaw Opening : 55mm  
**CAT II - 1000V**  
**CAT III - 600V**



**KYORITSU 2200R**  
AC A : 1000 A  
AC/DC V : 600 V  
 $\Omega$  : 40 M $\Omega$   
Jaw Opening : 33mm  
**TRUERMS**  
**CAT III - 600V**  
**CAT IV - 300V**



**KYORITSU 2127R**  
AC A : 1000 A  
DC/AC V : 60/600 V  
Hz : 9.999KHz  
**CAT III - 600V**  
**CAT IV - 300V**  
**TRUERMS**



**KYORITSU 2003A**  
AC/DC A : 2000 A  
AC V : 750 V  
DC V : 1000 V  
 $\Omega$  : 4000  $\Omega$   
Jaw Opening : 55mm  
**CAT III - 1000V**  
**CAT IV - 600V**



**KYORITSU 2031**  
AC A : 200 A  
Jaw Opening : 24mm  
**CAT III - 300V**



**KYORITSU 2009R**  
AC/DC A : 2000 A  
AC V : 750 V  
DC V : 1000 V  
 $\Omega$  : 4000  $\Omega$   
Hz : 4 kHz  
Jaw Opening : 55mm  
**TRUERMS**  
**CAT III - 1000V**  
**CAT IV - 600V**



**KYORITSU 2060BT**  
AC A : 600 A  
AC/DC V : 600 V  
 $\Omega$  : 60 M $\Omega$   
Hz : 10 kHz  
Jaw Opening : 75mm  
Clamp power meter AC :  
1000A, AC - 1000V  
**CAT IV - 600V**  
**CAT III - 1000V**



**KYORITSU 2210R**  
AC A : 3000 A  
Jaw Opening : 150mm  
**TRUERMS**  
**CAT III - 1000V**  
**CAT IV - 600V**



**KYORITSU 2200**  
AC A : 40/400/1000A  
AC V : 4.000/40.00/400.0/600V  
DC V : 400.0mV/4.000/40.00/400.0/600V  
 $\Omega$  : 40.00M $\Omega$   
Hz : 4 kHz  
Jaw Opening :  $\varnothing$ 33mm  
**CAT III - 1000V**  
**CAT IV - 600V**

# INSULATION RESISTANCE TESTER

## KYORITSU 3005A/3007A



Test Voltage : 250/500/1000V  
Measuring Range :  
20MΩ / 200MΩ / 2000MΩ  
3005A/3007A – Backlight 3007A

## KYORITSU 3131A (Analogue)



Test Voltage : 250/500  
/1000V  
Measuring Range :  
100MΩ / 200MΩ / 400MΩ

(3 Ranges)

## KYORITSU 3551/3552/3552BT



Test Voltage : 50/100/125/250/500/1000V  
Measuring Range :  
40GΩ (3552/3552BT Only)  
4000 MΩ (3551)

## KYORITSU 3132A (Analogue)



(3 Ranges)

Test Voltage : 250/500  
/1000V

Measuring Range :  
100MΩ / 200MΩ / 400MΩ  
AC Voltage : 600V

## KYORITSU 3161A (Analogue)



(2 Ranges)



## KYORITSU 3127

Test voltage	Max measurement value
250V (*1)	9.99GΩ
500V	99.9GΩ
1000V	199GΩ
2500V	999GΩ
5000V	9.99TΩ

## KYORITSU 3165/3166 (Analogue)



Test Voltage &  
Measuring Range :  
(3165)500V / 1000MΩ  
(3166)1000V / 2000MΩ

## KYORITSU 3124A (Analogue)



Test Voltage :  
1kV to 10kV Variable  
Measuring Range :  
1.6GΩ / 100GΩ

## KYORITSU 3125A (Digital)



Test Voltage : 250/500/1000  
/2500/5000V  
Measuring Range :  
100MΩ / 1000MΩ /  
2GΩ / 100GΩ / 1000GΩ

## KYORITSU 3128



Test voltage : 500V, 1000V,  
2500V, 5000V, 10000V, 12000V  
Measurement range: 500GΩ, 1TΩ,  
2.5TΩ, 5TΩ, 35TΩ

## KYORITSU 3121B/ 3122B



3121B : 2500V (100GΩ)  
3122B : 5000V (200GΩ)

# EARTH GROUND TESTER

## KYORITSU 4102A



(Analogue)  
Earth Resistance Range  
0Ω to 1200Ω  
Earth Voltage  
0 to 30 V AC

## KYORITSU 4106



Earth Resistance Range  
0Ω to 200kΩ  
Earth Resistivity  
0 to 200kΩ

## KYORITSU 4105A (Digital)



Earth Resistance Range  
0Ω to 2000Ω  
Earth Voltage  
0 to 200 V AC

## KYORITSU 4200



Range 20/200/1500 Ω  
AC - 30 A  
Leakage Current : 30 A

**TRUE RMS**

## KYORITSU 4105DL



Earth Resistance Range  
0.00 - 2000 Ω  
Earth Voltage  
0 - 300 V AC



# LUX METER

## KYORITSU 5204/5202

Measuring Range:  
5202 : 0.1 - 19990 Lux  
5204 : 0.0 - 199900 Lux



## KYORITSU 5204BT

Measuring Range:  
0.0~199900 lx  
Range :  
100 0/1000/10000/100000 lx



# POWER LOGGER / ANALYZER



## KYORITSU 6315



## KYORITSU 6305

# PHASE INDICATOR



## KYORITSU 8031



## KYORITSU 8035

# MULTIFUNCTION TESTER

## KYORITSU 6516BT



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**FLUKE**  
*networks*®

• • • • •

## TERMINATION TOOLS



MODULAR  
CRIMPER



NEED-L-LOCK™  
CRIMPING PLIERS



CABLE STRIPPERS



D-SNIPS™  
Heavy duty  
wire trippers



PROBE  
PIC



CAN  
WRENCHES



4&8 POSITION  
MODULAR  
ADAPTERS



D914™  
SERIES  
IMPACT TOOLS



JACKRAPID™  
PUNCHDOWN  
TOOL



PRO-TOOL™  
KITS

## FIBER INSPECTION TOOLS



MULTIFIBER™  
PRO MPO LOSS  
TESTER



SIMPLIFIBER  
PRO POWER  
METER/  
LIGHT  
SOURCE



FIBER LAUNCH  
CABLES



FIBER QUICKMAP™/  
ONESHOT™ PRO



VISIFAULT™  
VISUAL FAULT  
LOCATOR



FI-500  
FIBERINSPECTOR™  
MICRO



FIBERLERT™  
LIVE FIBER  
DETECTOR



FIBER OPTIC  
CLEANING KITS



QUICK CLEAN™  
CLEANERS



TEST  
REFERENCE  
CORDS (TRCs)

## COPPER TESTING TOOLS



LINKIQ™  
CABLE+  
NETWORK  
TESTER



MICROMAPPER™  
Wire Map Tester



TS 100  
CABLE FAULT  
FINDER



PRO 200  
TONE AND  
PROBE



MICRO  
SCANNER™  
SERIES



POCKET  
TONER



PRO3000™  
ANALOG TONE  
AND PROBE  
FAMILY

# VERSIVE CABLE CERTIFIERS



DSX CABLEANALYZER™  
SERIES COPPER  
CERTIFICATION



CERTIFIBER PRO  
OPTICAL LOSS TEST  
SET



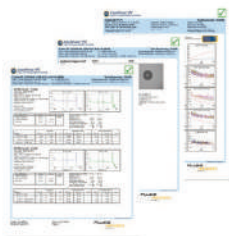
OPTIFIBER PRO  
SERIES OTDRs



FI-7000  
FIBER INSPECTOR™  
PRO



LINKWARE™ LIVE  
CERTIFICATION  
MANAGEMENT



LINKWARE™ PC CABLE  
TEST MANAGEMENT  
SOFTWARE



FI-3000 FIBER INSPECTOR™  
PRO MPO INSPECTION CAMERA



# EXTECH<sup>®</sup>

INSTRUMENTS



# EXTECH BRAND



## EXTECH PH100

pH - 0.00 to 14.00  
Tem - 2-5 to 90°C  
Memory - 15 readings

## EXTECH HDV610 Video scope kit



## EXTECH 445703



Humidity - 10 to 99% RH  
Tem - 10 to 60°C

## EXTECH RPM10



Display Counts - 99.999 count LCD  
Temp (IR) - (-20 to 315°C)



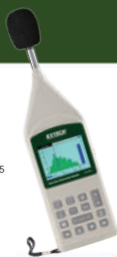
## EXTECH 42280 Temperature and Humidity Datalogger

temperature: -20 to 70°C,  
Humidity: 0 to 100%,  
dew point measurements available.

# SOUND LEVEL METER

## EXTECH - 407790A

Accuracy  $\pm 1.5\text{dB}$  (ref 94dB @ 1kHz)  
Measurement functions : Lp, Leq, L<sub>E</sub>, Lmax, Lmin, L<sub>05</sub>, L<sub>10</sub>, L<sub>50</sub>, L<sub>90</sub>, L<sub>95</sub>  
Frequency range : 25Hz ~ 10kHz  
Frequency Weighting : A, C, and Z  
Time Weighting : Fast, Slow, 10ms ( $\tau$ ), I



# SOCKET TESTER

## MARTINDALE - CP501 / BZ 101



# MULTIMETER

## SANWA CD 800a



DC A : 400mA  
ACA : 400mA  
AC V : 600 V  
DC V : 600 V  
 $\Omega$  : 40 M $\Omega$

Hz/⦿/—|—/—→

## SANWA YX360TRF



AC V : 750 V  
DC V : 1000 V  
 $\Omega$  : 200 M $\Omega$

Hz/⦿/—|—/—→



**Kett**

## MOISTURE TESTERS



**RICETER**  
GRAIN MOISTURE TESTER

**HM 530**  
WOOD  
MOISTURE  
TESTER



**PM 6501**  
GRAIN MOISTURE TESTER



**PM 450**  
GRAIN & SEED  
MOISTURE TESTER



**PM 6507**  
TEA MOISTURE TESTER



# DeFelsko®

## THICKNESS GAGES



FNS1



FNTS3



UTG-C3

COATING THICKNESS  
GAGES

MATERIAL THICKNESS  
GAGE



# HIOKI

## PRODUCTS



POCKET MULTIMETER  
3244-60



DIGITAL MULTIMETER  
DT4253



BATTERY TESTER  
BT-3554



DIGITAL CLAMPMETER  
CM4374



POWER LOGGER  
PW3365

**blackline**safety

G7



# GAS DETECTORS WITH ONLINE MONITORY



## BLACKLINE SAFETY G6

Gas Sensors - CO, H<sub>2</sub>S, O<sub>2</sub>, SO<sub>2</sub>  
Ingress Protection **IP67**



## BLACKLINE SAFETY G7c

Single Gas Cartridge - CO, CO<sub>2</sub>, O<sub>2</sub>,  
H<sub>2</sub>S, VOC (PID Sensor),  
NH<sub>3</sub>, O<sub>3</sub>, CL<sub>2</sub>, HCN, HF & etc

Multi Gas Cartridge - CO, CO<sub>2</sub>, H<sub>2</sub>S, VOC, NH<sub>3</sub>, O<sub>3</sub>,  
CL<sub>2</sub>, HCN, HF & etc

Sensor Types - LEL IR / LEL MPS /  
None Diffusion or pump

Ingress Protection **IP67**  
Real Time work safety



## BLACKLINE SAFETY EXO

Gas Sensors - CO, CO<sub>2</sub>, O<sub>2</sub>,  
H<sub>2</sub>S, VOC, NH<sub>3</sub>, O<sub>3</sub>,  
CL<sub>2</sub>, HCN, HF & etc

1-4 Sensor Cartridges

Ingress Protection **IP65**

# RIGOL





# OSCILLOSCOPE



## DS1102Z-E

Brand Width - 100 MHz  
Analog Channels - 2 Channels



## DS1202Z-E

Brand Width - 200 MHz  
Analog Channels - 2 Channels



## DS1104Z PLUS

Brand Width - 100 MHz  
Analog Channels - 4 Channels  
16 Digit Channels



## DS11054Z

Brand Width - 50 MHz  
Analog Channels - 4 Channels



## MSO5104

Brand Width - 100 MHz  
Analog Channels - 4 Channels

# WAVEFORM GENERATORS



## DG811

Max. Output Frequency – 10 MHz  
Channels – 1 Channel



## DG822

Max. Output Frequency – 25 MHz  
Channels – 2 Channel



## DG952

Max. Output Frequency – 50 MHz  
Channels – 2 Channel

# DC POWER SUPPLIES



**DP711**

Channels – 1 Channel  
Output per Channel – 30V/5A  
Total Power – 150W



**DP712**

Channels – 1 Channel  
Output per Channel – 50V/3A  
Total Power – 150W



**DP813**

Channels – 1 Channel (2 output Ranges)  
Output per channel – 8V/20A (Low Range),  
20V/10A (High Range)  
Total Power – 200W



**DP822**

Channels – 2 Channels  
Output per Channel – 20V/5A, 5V/16A  
Total Power – 180W



**DP932U**

Channels – 3 Channels  
Output per Channel – 32V/3A, 32V/3A, 6V/3A  
Total power – 210W

# DIGITAL MULTIMETERS (BENCHTOP)



**DM3058E  
(5.5 DIGITS)**

DC Voltage - 1000V  
DC Current - 10A  
AC Voltage - 750V  
AC Current - 10A  
Resistance – 100M $\Omega$   
Capacitance – 10000  $\mu$ F



**DM3068  
(6.5 DIGITS)**

DC Voltage - 1000V  
DC Current - 10A  
AC Voltage - 750V  
AC Current - 10A  
Resistance – 100M $\Omega$   
Capacitance – 10000  $\mu$ F

# pico<sup>®</sup>

Technology



# OSCILLOSCOPES



## 2204A

Bandwidth – 10 MHz  
Channels – 2 Channels  
Memory – 8Ks



## 22406B

Bandwidth – 50 MHz  
Channels – 4 Channels  
Memory – 32Ms



## 2208B

Bandwidth – 100 MHz  
Channels – 2 Channels  
Memory – 128Ms



## 33405D

Bandwidth – 100 MHz  
Channels – 4 Channels  
Memory – 256Ms



## 33406D

Bandwidth – 200 MHz  
Channels – 4 Channels  
Memory – 512Ms





# SONOTEC

ULTRASONIC SOLUTION



## ULTRASONIC TESTING DEVICES FOR PREDICTIVE MAINTENANCE



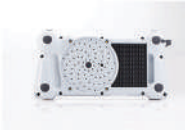
### SONAPHONE

Digital Ultrasonic Testing Device for Maintenance 4.0



### SOFTWARE

Software Environment and Application Apps



### SONASCREEN

Acoustic camera for leak detection and electrical inspection



### SONASCREEN IR

Acoustic Thermal Imager for Preventive Maintenance



### SONAPHONE POCKET

Compact Ultrasonic Testing Device for Preventive Maintenance



### SONAPHONE T

Adjustable Ultrasonic transmitter for the reliable detection of leaks

## ULTRASONIC FLOW AND BUBBLE SENSORS FOR LIQUIDS



### ULTRASONIC FLOW METER FOR LIQUIDS

Non-contact liquid flow measurement with SEMIFLOW and SONOFLOW sensors



### ULTRASONIC BUBBLE DETECTOR

Contactless air bubble detection with SONOCHECK Sensors



### ULTRASONIC FLOW-BUBBLE SENSOR

Combine flow measurement and air bubble detection with SONOFLOW CO.56 and SONOFLOW CO.56 Pro sensors

# NON-DESTRUCTIVE TESTING WITH ULTRASOUND



## THICKNESS GAUGES

For Ultrasonic Testing

SONOWALL 50 | SONOWALL 60 |

SONOWALL 70 | Cygnus 1 Ex



## SONO-PR 200

High-End Ultrasonic  
Testing Device

Flaw Detection | Immersion & Squirter Applications |  
Wall Thickness Measurement



## NON-CONTACT INSPECTION

Air-Coupled Ultrasonic Testing

SONOAIR R&D |

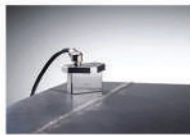
Non Contact Ultrasonic Probes

# CUSTOMIZED ULTRASONIC PROBES AND TRANSDUCERS



## RAIL INSPECTION

Flaw detection at railways



## SHEET METAL INSPECTION

Ultrasonic testing of volume  
defects and thickness tolerances



## PIPELINE INSPECTION

Ultrasonic inspection with  
smart pigs



## PHASED-ARRAY PROBES

Phased-Array transducers for  
complex ultrasonic testing task



## HIGH TEMPERATURE UT

Thickness measurements  
up to 550 °C



## PLASTIC PIPES

Thickness measurement and  
quality assurance of plastic pipes

# katronic





## PORTABLE ULTRASONIC FLOW METERS



**KATFLOW 230**



**KATFLOW 210**



**KATFLOW 200**

Pipe diameter range: 10mm to 6,500mm  
Multiple Material  
Wall Thickness Measurement  
100,000 measurement capacity  
IP 65, IP67 Compatibility  
Applications: Flow measurements for Liquids,  
Gases and Thermal energy Management

## FIXED INSTALLED ULTRASONIC FLOW METERS



**KATFLOW 100**



**KATFLOW 150**



**KATFLOW 10**

Pipe diameter range 10 mm to 6,500 mm  
Temperature range for sensors -30 °C to +250 °C  
100,000 measurement capacity  
RS485, ModbusRTU and HART\* compatible output  
IP 66 compatibility  
LCD display and full keypad  
Wall or pipe mounted capability  
Applications: Flow measurements for Liquids,  
Gases and Thermal energy Management

## ULTRASONIC FLOW METERS FOR HAZARDOUS AREA



**KATFLOW 170**



**KATFLOW 180**

Pipe diameter range 10mm to 3,000mm  
IP66 Compatibility  
Multiple Gases  
Communication options RS485, ModbusRTU, ProfibusPA and HART\* compatible output  
100,000 measurement capacity  
ATEX Complied  
Applications: Flow measurements for Liquids, Gases and Thermal energy Management

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FREE

0%

INSTALLMENT

Plan upto 6 months

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Website



Corporate Video



Product Catalogue

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