TECHNICAL DATA

Fluke 120B Series Industrial ScopeMeter® Hand-Held Oscilloscopes



600 V CAT IV

KEY MEASUREMENTS

Voltage, current and power waveforms with numerical values including harmonics, resistance, diode, continuity and capacitance measurements.

AUTOMATICALLY CAPTURE, VIEW AND ANALYZE COMPLEX WAVEFORMS

Fluke Connect and View™ triggering automatically displays waveforms without having to adjust amplitude, timebase and trigger settings, while Intellaset™ technology analyzes the signal and automatically displays critical numerical readings, making troubleshooting faster than ever.

FLUKE CONNECT® COMPATIBLE*

View data locally on the instrument, or via Fluke Connect mobile app.

*Not all models are available in all countries. Check with your local Fluke representative.

Simplified testing, more insight and faster electro-mechanical troubleshooting

The compact ScopeMeter® 120B Series, is the rugged oscilloscope solution for industrial electrical and electro-mechanical equipment troubleshooting and maintenance applications. It's a truly integrated test tool, with oscilloscope, multimeter and high-speed recorder in one easy-to-use instrument. The ScopeMeter 120B Series also integrates with Fluke Connect® mobile app and FlukeView® for ScopeMeter software to enable further collaboration, data analysis and archiving of critical test information.

The 120B Series Industrial ScopeMeter Test Tools include innovative functions designed to help technicians troubleshoot faster and get the answers they need to keep their systems up and running. Display waveforms with Connect and View™ trigger and setup technology and automatically view related numerical measurements using Fluke IntellaSet™ technology, all without making manual measurement adjustments. With Recorder Event Detect capabilities, elusive intermittent events are captured and logged for easy viewing and analysis.

- Dual-input digital oscilloscope and multimeter
- 40 MHz or 20 MHz oscilloscope bandwidth
- Two 5,000-count true-rms digital multimeters
- Connect-and-View™ trigger simplicity for hands-off operation
- IntellaSet™ technology automatically and intelligently adjusts numerical readout based on the measured signal
- Dual-input waveform and meter reading recorder for trending data over extended periods
- Recorder Event Detect captures elusive intermittent signals on repetitive waveforms up to 10 KHz





- Shielded test leads for oscilloscope, resistance and continuity measurements
- Resistance, continuity, diode and capacitance meter measurements
- Power measurements (W, VA, VAR, PF, DPF, Hz)
- Voltage, current and power harmonics
- Check Industrial networks with BusHealth physical layer tests against defined reference levels
- Save or recall data and instrument setups
- Store instrument setups defined by a test sequence for routine maintenance or most often used test procedures.
- External optically isolated USB interface to transfer, archive and analyze scope or meter data
- Optional WiFi adapter connected to internal USB port to wirelessly transfer information to the PC, laptop or Fluke Connect® mobile app*
- FlukeView® ScopeMeter® Software for Windows®
- Rugged design to withstand 3g Vibration, 30g shock, and rated IP51 according to EN/IEC60529
- Highest safety rating in the industry: safety rated for CAT IV 600 V
- Li-Ion rechargeable battery, seven-hours operation (with four-hour charge time)

*Not all models are available in all countries. Check with your local Fluke representative.



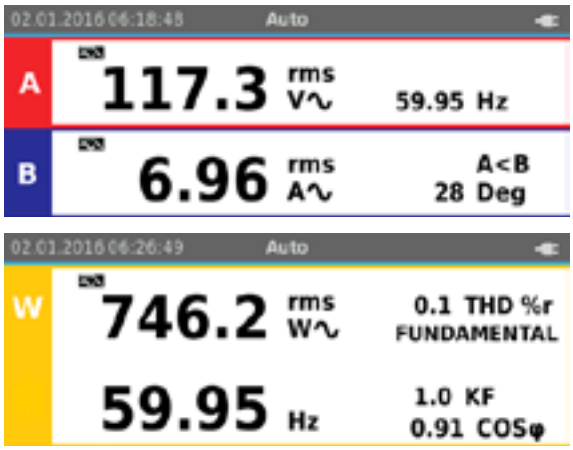
Fluke Connect-and-View™ triggering with Auto Reading function using Fluke IntellaSet™ technology gives you quick access to the data you need.

Connect-and-View™ triggering for an instant, stable display

Oscilloscope users know how difficult triggering can be. Using the wrong settings can lead to unstable waveform captures, and sometimes the wrong measurement data. Fluke's unique Connect-and-View™ triggering technology recognizes signal patterns, and automatically sets up the correct triggering to provide a stable, reliable and repeatable display. Connect-and-View™ triggering is designed to work with virtually any signal, including motor drives and control signals—without adjusting parameters, or even touching a button. Signal changes are instantly recognized and settings are automatically adjusted, providing a stable display even when measuring multiple test points in quick succession.

IntellaSet™/AutoReading

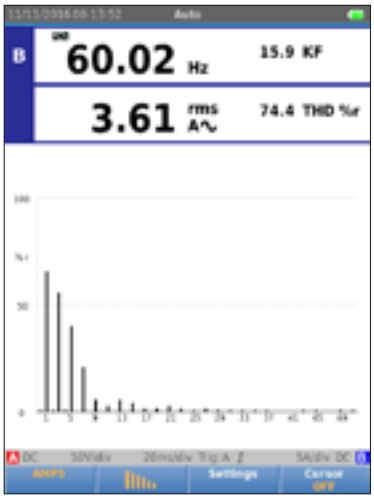
The Auto Readings function with Fluke IntellaSet™ technology uses proprietary algorithms to intelligently analyze the measured waveform and automatically displays the most appropriate numerical measurements on screen, so you can get the data you need easier than ever before. As an example, when the measured waveform is a line voltage signal, the Vrms and Hz readings are automatically displayed, whereas if the measured waveform is a square wave, the Vpeak-peak and Hz readings are automatically displayed. Using IntellaSet™ technology in conjunction with Connect-and-View™ automatic triggering you can be sure you're seeing not only the correct waveform, but the appropriate numerical reading as well. All without touching a button.



Easily obtain key power characteristics to validate a system power.

Industrial equipment needs a reliable power supply to operate properly, use the dual input to obtain key power measurements.

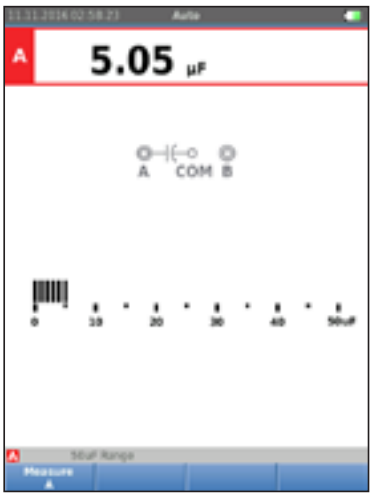
For single phase or 3-phase balanced systems, the dual inputs of the Industrial ScopeMeter® 120B Series can measure ac+dc rms voltage on channel A and ac+dc rms current on channel B. The Fluke 125B can then calculate; frequency, phase angle, active power (kW), reactive power (VA or var), power factor (PF) or displacement power factor (DPF) and can also calculate the power values for a 3-phase system where all phases have equal voltage and currents. This applies to both balanced system and resistive loads.



Harmonic spectrum overview with cursors to measure the distortion as a percentage of the fundamental.

Harmonics measurements

Harmonics are periodic distortions of voltage, current, or power sine waves. Harmonics in power distribution systems are often caused by non-linear loads such as switched mode dc power supplies and adjustable speed motor drives. Harmonics can cause transformers, conductors, and motors to overheat. In the Harmonics function, the Test Tool measures harmonics to the 51st. Related data such as dc components, THD (Total Harmonic Distortion), and K factor are measured to provide a complete insight in to the electrical state of health of your loads.



A single test tool measures volts, ohms, amps or capacitance, in addition to displaying waveforms.

One test lead to measure multiple electrical parameters

High frequency waveform, meter, capacitance and resistance measurements as well as continuity checks are all covered by single set of shielded test leads. No time is wasted finding or swapping leads.

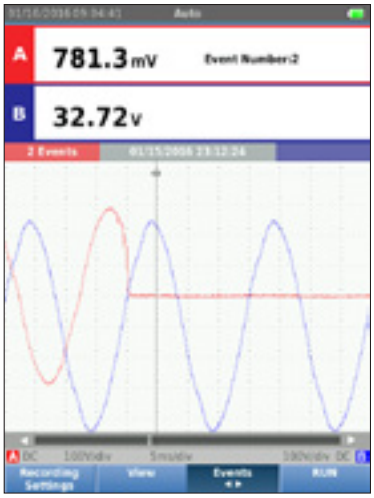


FlukeView® ScopeMeter® Software for Windows®

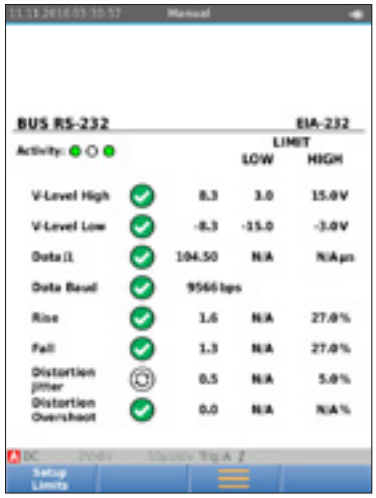
Get more out of your ScopeMeter 120B with FlukeView® Software:

- Store instrument's screen copies on the PC, in color
- Copy screen images into your reports and documentation
- Capture and store waveform data from your ScopeMeter on your PC
- Create and archive waveform references for easy comparison
- Copy waveform data into your spreadsheet for detailed analysis
- Use cursors for parameter measurement
- Add user text to instrument setups and send them to the instrument for operator reference and instructions





Quickly step through recorded events to identify and troubleshoot intermittent faults.



Quickly understand industrial field bus signal physical layer analog characteristics.

Fluke Connect mobile app compatibility

Automated industrial machinery is harder than ever to trouble shoot. It's not enough to just know where you have to test, you also have to know what to look for—and that can be hard without baseline measurement data or access to subject matter experts. The Fluke Connect® Assets wireless system of software and wireless test tools enables technicians to reduce maintenance costs and increase uptime with accurate equipment records and maintenance data that is easy to interpret, and share. Compare and contrast test point measurement data and trends so you can better understand signal characteristics and changes over time. And, by storing maintenance data on the Fluke Cloud™ you can enable team members to access it from wherever and whenever they need to so you can get advice or approvals in the field and get your systems up and running faster than ever before.

Use the comprehensive recorder modes to help find intermittent faults with ease

The toughest faults to find are those that happen only once in a while—intermittent events. They can be caused by bad connections, dust, dirt, corrosion or simply broken wiring or connectors. Other factors, like line outages and sags or the starting and stopping of a motor, can also cause intermittent events resulting in equipment shutdowns. When these events happen, you may not be around to see it. But, your Fluke ScopeMeter® Test Tool will. You can either plot the minimum and maximum peak measurement values or record the waveform trace. And, with expandable micro SD memory, recording sessions can be done for up to 14 days. This recorder is even more powerful with the addition of Recorder Event Detect, which makes detecting and logging intermittent faults easier than ever. Just set a threshold on a meter reading or scope trace and deviations are tagged as unique events. You no longer need to search through masses of data to pinpoint faults, and can quickly step from one tagged event to the next, while still having access to the full data set.

Industrial Bus Health Test verifies electrical signal quality on industrial buses

Bus Health Test analyzes the electrical signals on the industrial bus or network and gives a clear "Good", "Weak" or "Bad" indication mark for each of the relevant parameters, presented next to the actual measurement value. Measured values are compared to standard values based on the selected bus types (CAN-bus, Profi-bus, Foundation Field, RS-232 and many more), or, unique reference values can be set if different tolerances are required. The Fluke 125B can validate the quality of the electrical signals as soon as they are passed along the network, without looking at the data content. Additionally, the 125B checks the signal levels and speed, transition times and distortion, and compares these to the appropriate standards to help you find errors such as improper cable connections, bad contacts, incorrect grounding or improper terminators.

FLUKE®

Specifications

Oscilloscope mode		
Vertical		
Frequency response – dc coupled	without probes and test leads (with BB120)	123B: dc to 20 MHz (–3 dB) 124B and 125B: dc to 40 MHz (–3 dB)
	with STL120-IV 1:1 shielded test leads	DC to 12.5 MHz (–3 dB) / dc to 20 MHz (–6 dB)
	with VP41 10:1 Probe	123B: dc to 20MHz (–3 dB) 124B and 125B: dc to 40 MHz (–3 dB)
Frequency response – ac coupled (lf roll off)	without probes and test leads	<10 Hz (–3 dB)
	with STL120-IV 1:1 shielded test leads	<10 Hz (–3 dB)
	with VP41 10:1 Probe	<10 Hz (–3 dB)
Rise time, excluding probes, test leads	123B <17.5 ns 124B and 125B <8.75 ns	
Input impedance	without probes and test leads	1 MΩ//20 pF
	with BB120	1 MΩ//24 pF
	with STL120-IV 1:1 shielded test leads	1 MΩ//230 pF
	with VP41 10:1 Probe	5 MΩ//15.5 pF
Sensitivity	5 mV to 200 V/div	
Analog bandwidth limiter	10 kHz	
Display modes	A, -A, B, -B	
Max. input voltage A and B	direct, with test leads, or with VP41 Probe	600 Vrms CAT IV, 750 Vrms maximum voltage.
	with BB120	600 Vrms
Max. floating voltage, from any terminal to ground	600 Vrms CAT IV, 750 Vrms up to 400Hz	
Horizontal		
Scope modes	Normal, Single, Roll	
Ranges (Normal)	Equivalent sampling	123B: 20 ns to 500 ns/div,
		124B and 125B: 10 ns to 500 ns/div
	Real time sampling	1 µs to 5 s/div
	Single (real time)	1 µs to 5 s/div
	Roll (real time)	1s to 60 s/div
Sampling rate (for both channels simultaneously)	Equivalent sampling (repetitive signals)	up to 4 GS/s
	Real time sampling 1 µs to 60 s/div	40 MS/s
Trigger		
Screen update	Free run, on trigger	
Source	A, B	
Sensitivity A and B	@ DC to 5 MHz	0.5 divisions or 5 mV
	@ 40 MHz	123B: 4 divisions
		124B and 125B: 1.5 divisions
	@ 60 MHz	123B: N/A
		124B and 125B: 4 divisions
Slope	Positive, negative	
Advanced scope functions		
Display modes	Normal	Captures up to 25 ns glitches and displays analog-like persistence waveform.
	Smooth	Suppresses noise from a waveform.
	Glitch off	Does not capture glitches between samples
	Envelope	Records and displays the minimum and maximum of waveforms over time.
Auto set (Connect-and-View™)	Continuous fully automatic adjustments of amplitude, time base, trigger levels, trigger gap, and hold-off. Manual override by user adjustment of amplitude, time base, or trigger level.	

Dual input meter		
The accuracy of all measurements is within ± (% of reading + number of counts) from 18 °C to 28 °C.		
Add 0.1x (specific accuracy) for each °C below 18 °C or above 28 °C. For voltage measurements with 10:1 probe, add probe uncertainty +1 %. More than one waveform period must be visible on the screen.		
Input A and input B		
DC voltage (VDC)		
Ranges	500 mV, 5 V, 50 V, 500 V, 750 V	
Accuracy	± (0.5 % +5 counts)	
Common mode rejection (CMRR)	>100 dB @ dc, >60 dB @ 50, 60, or 400 Hz	
Full scale reading	5000 counts	
True-rms voltages (V ac and V ac+dc)		
Ranges	500 mV, 5 V, 50 V, 500 V, 750 V	
Accuracy for 5 % to 100 % of range (DC coupled)	DC to 60 Hz (V ac+dc)	± (1 % +10 counts)
	1 Hz to 60 Hz (V ac)	± (1 % +10 counts)
Accuracy for 5 % to 100 % of range (AC or dc coupled)	60 Hz to 20 kHz	± (2.5 % +15 counts)
DC rejection (only VAC)	>50 dB	
Common mode rejection (CMRR)	>100 dB @ dc	
	>60 dB @ 50, 60, or 400 Hz	
Full scale reading	5000 counts, reading is independent of any signal crest factor.	
Peak		
Modes	Max peak, Min peak, or pk-to-pk	
Ranges	500 mV, 5 V, 50 V, 500 V, 2200 V	
Accuracy	Accuracy Max peak or Min peak	5 % of full scale
	Accuracy Peak-to-Peak	10 % of full scale
Full scale reading	500 counts	
Frequency (Hz)		
Ranges	123B: 1 Hz, 10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz,1 MHz, 10 MHz, and 50 MHz	
	124B and 125B: 1 Hz, 10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz, 1 MHz, 10 MHz, and 70 MHz	
Frequency range	15 Hz (1 Hz) to 50 MHz in continuous autoset	
Accuracy @1 Hz to 1 MHz	± (0.5 % +2 counts)	
Full scale reading	10 000 counts	
RPM		
Max reading	50.00 kRPM	
Accuracy	± (0.5 % +2 counts)	
Duty cycle (PULSE)		
Range	2 % to 98 %	
Frequency range	15 Hz (1 Hz) to 30 MHz in continuous autoset	
Pulse width (PULSE)		
Frequency range	15 Hz (1 Hz) to 30 MHz in continuous autoset	
Full scale reading	1000 counts	
Amperes (AMP)		
With current clamp	Ranges	same as V dc, V ac, V ac+dc, or PEAK
	Scale factors	0.1 mV/A, 1 mV/A, 10 mV/A, 100 mV/A, 400 mV/A, 1 V/A, 10 mV/mA
	Accuracy	same as V dc, V ac, V ac+dc, or PEAK (add current clamp uncertainty)

Temperature (TEMP) with optional temperature probe		
Range	200 °C/div (200 °F/div)	
Scale factor	1 mV/°C and 1 mV/°F	
Accuracy	as V dc (add temp. probe uncertainty)	
Decibel (dB)		
0 dBV	1 V	
0 dBm (600 Ω /50 Ω)	1 mW referenced to 600 Ω or 50 Ω	
dB on	V dc, V ac, or Vac+dc	
Full scale reading	1000 counts	
Crest factor (CREST)		
Range	1 to 10	
Full scale reading	90 Counts	
Phase		
Modes	A to B, B to A	
Range	0 to 359 degrees	
Resolution	1 degree	
Power (125B only)		
Configurations	1 phase / 3 phase 3 conductor balanced loads (3 phase: fundamental component only, AUTOSET mode only)	
Power factor (PF)	Ratio between watts and VA range – 0.00 to 1.00	
Watt	RMS reading of multiplying corresponding samples of input A (volts) and input B (amperes)	
	Full scale reading	999 counts
VA	Vrms x Arms	
	Full scale reading	999 counts
VA reactive (var)	$\sqrt{((VA)^2-W^2)}$	
	Full scale reading	999 counts
Vpwm		
Purpose	to measure on pulse width modulated signals, like motor drive inverter outputs	
Principle	readings show the effective voltage based on the average value of samples over a whole number of periods of the fundamental frequency	
Accuracy	as Vrms for sinewave signals	
Input A to common		
Ohm (Ω)		
Ranges	123B and 124B	500 Ω , 5 kΩ, 50 kΩ, 500 kΩ, 5 MΩ, 30 MΩ
	125B	50 Ω, 500 Ω , 5 kΩ, 50 kΩ, 500 kΩ, 5 MΩ, 30 MΩ
Accuracy	± (0.6 % + 5 counts) 50 Ω ±(2 % + 20 counts)	
Full scale reading	50 Ω to 5 MΩ – 5000 counts, 30 MΩ – 3000 counts	
Measurement current	0.5 mA to 50 nA, decreases with increasing ranges	
Open circuit voltage	<4 V	
Continuity (Cont)		
Beep	<(30 Ω ± 5 Ω) in 50 Ω range	
Measurement current	0.5 mA	
Detection of shorts of	≥1 ms	
Diode		
Measurement voltage	@0.5 mA	>2.8 V
	@open circuit	<4 V
Measurement current	0.5 mA	
Polarity	+ on input A, – on COM	

Capacitance (CAP)		
Ranges	50 nF, 500 nF, 5 µF, 50 µF, 500 µF	
Full scale reading	5000 counts	
Measurement current	500 nA to 0.5 mA, increases with increasing ranges	
Advanced meter functions		
Zero Set	Set actual value to reference	
AutoHold (on A)	Captures and freezes a stable measurement result. Beeps when stable. AutoHold works on the main meter reading, with thresholds of 1 Vpp for AC signals and 100 mV for DC signals.	
Fixed decimal point	Activated by using attenuation keys.	
Cursor Readout (124B and 125B)		
Sources	A, B	
Single vertical line	Average, min and max readout	
	Average, min, max and time from start of readout (in ROLL mode; instrument in HOLD)	
	Min, max and time from start of readout (in RECORDER mode; instrument in HOLD)	
	Harmonics values in POWER QUALITY mode.	
Dual vertical lines	Peak-peak, time distance and reciprocal time distance readout	
	Average, min, max and time distance readout (in ROLL mode; instrument in HOLD)	
Dual horizontal lines	High, low and peak-peak readout	
Rise or fall time	Transition time, 0 %-level and 100 %-level readout (manual or auto leveling; auto leveling only possible in single channel mode)	
Accuracy	As oscilloscope accuracy	
Recorder		
The recorder captures meter readings in Meter Recorder mode or continuously captures waveform samples in Scope Recorder mode. The information is stored on internal memory or on optional SD card (with the 125B or 124B).		
The results are displayed as Chart recorder display that plots a graph of min and max values of Meter measurements over time or as a waveform recorder display that plots all the captured samples.		
Meter readings		
Measurement Speed	Maximum 2 measurements/s	
Record Size (min, max, average)	2 M readings for 1 channel	
Recorded Time Span	2 weeks	
Maximum number of events	1024	
Waveform record		
Maximum sample rate	400 K sample/s	
Size Internal memory	400 M samples Recorded Time	
Span internal memory	15 minutes at 500 µs/div	11 hours at 20 ms/div
Record Size SD card	1.5 G samples	
Recorded Time Span SD card	11 hours at 500 µs/div	14 days at 20 ms/div
Maximum number of events	64	

Power Quality (125B only)		
Readings	Watt, VA, var, PF, DPF, Hz	
Watt, VA, var ranges (auto)	250 W to 250 MW, 625 MW, 1.56 GW	
	when selected: total (%r)	± (2 % + 6 counts)
	when selected: fundamental (%f)	± (4 % + 4 counts)
DPF	0.00 to 1.00	
PF	0.00 to 1.00, ± 0.04	
Frequency range	10.0 Hz to 15.0 kHz	40.0 Hz to 70.0 Hz
Number of Harmonics	DC to 51	
Readings / Cursor readings (fundamental 40 Hz to 70 Hz)	V rms / A rms /Watt	each harmonic from fundamental maybe selected for individual readings
Includes frequency of fundamental, phase Angle and K-factor (in Amp and Watt)		
Bus health tester (Fluke 125B only)		
Type	**Subtype**	**Protocol**
AS-i	NEN-EN50295	
CAN	ISO-11898	
Interbus S	RS-422	EIA-422
Modbus	RS-232	RS-232/EIA-232
	RS-485	RS-485/EIA-485
Foundation Fieldbus	H1	61158 type 1, 31.25 kBit
Profibus	DP	EIA-485
	PA	61158 type 1
RS-232	EIA-232	
RS-485	EIA-485	
Miscellaneous		
Display	Type	5.7-inch color active matrix TFT
	Resolution	640 x 480 pixels
Waveform Display	Vertical	10 div of 40 pixels
	Horizontal	12 div of 40 pixels
Power	External	via Power Adapter BC430
	Input voltage	10 V DC to 21 V DC
	Power consumption	5 W typical
	Input connector	5 mm jack
	Internal	via Battery Pack BP290
	Battery power	Rechargeable Li-Ion 10.8 V
	Operating time	7 hours with 50 % backlight brightness
	Charging time	4 hours with test tool off, 7 hours with test tool on
	Allowable ambient temp	0 to 40 °C (32 to 104 °F) during charging
Memory	Internal memory can store 20 data sets (screen waveform and setup)	Micro SD card slot with optional SD card (max size of 32 GB)
Mechanical	Size	259 mm x 132 mm x 55 mm (10.2 in x5.2 in x 2.15 in)
	Weight	1.4 kg (3.2 lb) including battery pack

Interface	Optically isolated	Transfer screen copies (bitmaps), settings and data
	USB to PC/laptop	OC4USB optically isolated USB adapter/cable, (optional), using FlukeView® software for Windows®.
	Optional WiFi adapter	Fast transfer of screen copies (bitmaps), settings and data to PC/laptop, tablet, smartphone, etc. A USB port is provided for attaching the WiFi dongle. Do not use the USB port with a cable for safety reasons.
Environmental		
Environmental	MIL-PRF-28800F, Class 2	
Temperature	Battery Operation	0 to 40 °C (32 to 104 °F)
	Power Adapter Operation	0 to 50 °C (32 to 122 °F)
	Storage	-20 to 60 °C (-4 to 140 °F)
Humidity (Operating)	@ 0 to 10 °C (32 to 50 °F)	noncondensing
	@ 10 to 30 °C (50 to 86 °F)	95 %
	@ 30 to 40 °C (86 to 104 °F)	75 %
	@ 40 to 50 °C (104 to 122 °F)	45 %
Storage	@ -20 to 60 °C (-4 to 140 °F)	noncondensing
Altitude	Operating at 3 km (10 000 feet)	CAT III 600 V
	Operating at 2 km (6 600 feet)	CAT IV 600 V
	Storage	12 km (40 000 feet)
EMC electromagnetic compatibility	International	IEC 61326-1: Industrial, CISPR 11: Group 1, Class A
	Korea (KCC)	Class A Equipment (Industrial Broadcasting & Communication Equipment)
	USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.
Wireless radio with adapter	Frequency range	2412 MHz to 2462 MHz
	Output power	<100 mW
Enclosure protection	IP51, ref: EN/IEC60529	
Safety	General	IEC 61010-1: Pollution Degree 2
	Measurement	IEC 61010-2-033: CAT IV 600 V/CAT III 750 V
Max. input voltage input A and B	Direct on input or with leads	600 Vrms CAT IV for derating
	With Banana-to BNC Adapter BB120	600 Vrms for derating
	Max. floating voltage from any terminal to ground	600 Vrms CAT IV, 750 Vrms up to 400 Hz

	Fluke 123B	Fluke 124B	Fluke 125B
Functions			
Full function dual input scope and meter	•	•	•
Oscilloscope bandwidth MHz	20	40	40
Meter and Scope Recorder	•	•	•
Scope cursor measurements		•	•
Power and harmonics measurements			•
Bus health			•
Included accessories			
10:1 voltage probe		•	•
i400S AC Current Clamp			•

Ordering information

Fluke-123B Industrial ScopeMeter® Hand Held Oscilloscope (20 MHz)
Fluke-123B/S Industrial ScopeMeter® Hand Held Oscilloscope (20 MHz)*
Fluke-124B Industrial ScopeMeter® Hand Held Oscilloscope (40 MHz)
Fluke-124B/S Industrial ScopeMeter® Hand Held Oscilloscope (40MHz)*
Fluke-125B Industrial ScopeMeter® Hand Held Oscilloscope (40MHz)
Fluke-125B/S Industrial ScopeMeter® Hand Held Oscilloscope (40MHz)*

Includes: Li-Ion battery pack, charger/power adapter, 2 shielded test leads with ground leads, black test lead, red and blue hook clips, banana to BNC adapter, and WiFi USB adapter**

***Fluke 120B/S versions also include soft carry case, FlukeView™ for Windows® software, magnetic hanger, and screen protector.**

****WiFi USB adapter NOT available in all countries. Check with your local Fluke representative.**

STL120-IV Shielded Test Lead Set 600 V CAT IV
HC120-II Set of 2 hook clips
BB120-II Set of 2 banana to BNC adapter
VPS41 Voltage probe set 40MHz 600 V CAT IV
C120B Soft Carrying Case For 120B Series
SP120B Screen Protector For 120B Series
SCC120B Accessory Kit 120B Series
OC4USB Fluke OC4USB USB Interface Cable

Fluke 80i 110s Fluke 80i-110s AC/DC Current Clamp
Fluke i1000s Fluke i1000s AC Current Probe
Fluke i1010 Fluke i1010 AC/DC Current Clamp
Fluke i200s Fluke i200s AC Current Clamp
Fluke-i3000s Fluke i3000s AC Current Clamp
Fluke i3000s Flex 24 Fluke i3000s Flex-24 AC Current Clamp, 610 mm (24 in.)
Fluke i3000s Flex 36 Fluke i3000s Flex-36 AC Current Clamp, 915 mm (36 in.)
Fluke i30s Fluke i30s AC/DC Current Clamp
Fluke-i310s Fluke i310s Current Probe
Fluke i400s Fluke i400s AC Current Clamp
Fluke i410 Fluke i410 AC/DC Current Clamp
Fluke i5S Fluke i5S AC Current Clamp



FLUKE CONNECT®

Set up and sustain preventive maintenance practices with ease to help you oversee your complex world with the Fluke Connect® system of software and over 40 wireless test tools.

- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Save measurements to the Fluke Cloud™ and associate with an asset so your team can consult baseline, historical and current measurements from one location.
- Collaborate with ease by sharing your measurement data with team members with ShareLive™ video calls and emails.
- Wireless one-step measurement transfer with AutoRecord™ measurements eliminates transcription errors, clipboards, notebooks and multiple spreadsheets.
- Generate reports with multiple measurement types to provide status or next step recommendations.

Find out more and take a free trial at: flukeconnect.com
Google and Android store images

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.**

Download the app at:

Download on the App Store

ANDROID APP ON Google play

Smartphone wireless service and data plan not included with purchase.



Fluke Connect is not available in all countries.

Fluke. *Keeping your world up and running.®*

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Fluke Europe B.V.
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OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

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