

TECHNICAL DATA

Fluke 120B Series Industrial ScopeMeter handheld Oscilloscopes



Key features

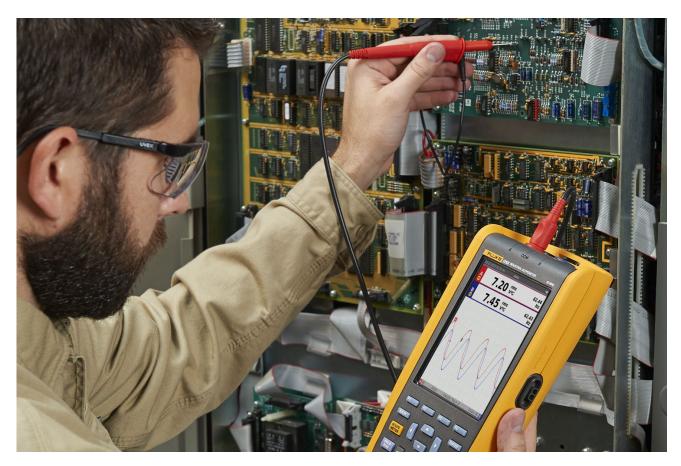
- Dual-input digital oscilloscope and multimeter in a ScopeMeter® test tool
- Available with a 40 MHz or 20 MHz oscilloscope bandwidth
- Features Connect-and-View[™] trigger simplicity for hands-off operation
- Includes IntellaSet™ technology to automatically and intelligently adjust numerical readout based on measured signal
- Provides a dual-input waveform and meter reading recorder for trending data over extended periods

Product overview: Fluke 120B Series Industrial ScopeMeter handheld Oscilloscopes

Simplified testing, more insight

The compact ScopeMeter® 120B Series, is the rugged oscilloscope solution for industrial electrical and electromechanical equipment troubleshooting and maintenance applications. It's a truly integrated test tool, putting the functions of an oscilloscope, multimeter, and high-speed recorder into 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.





Faster electro-mechanical troubleshooting

Troubleshoot faster and get the answers you need to keep systems up and running. Display waveforms with Connect and View[™] trigger and setup technology. 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.

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, even 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.





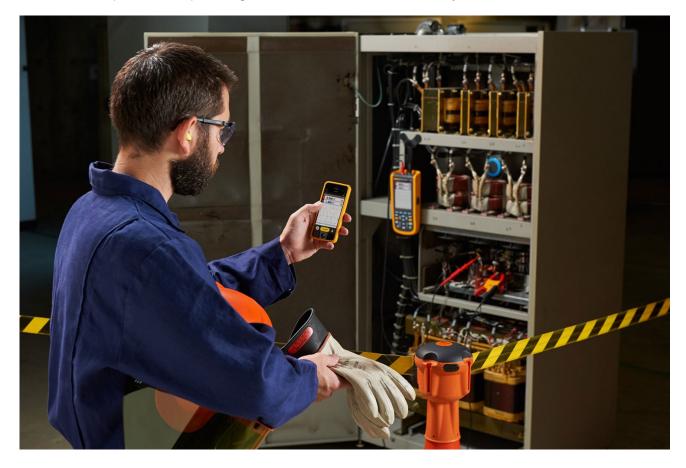


IntellaSet™/AutoReading

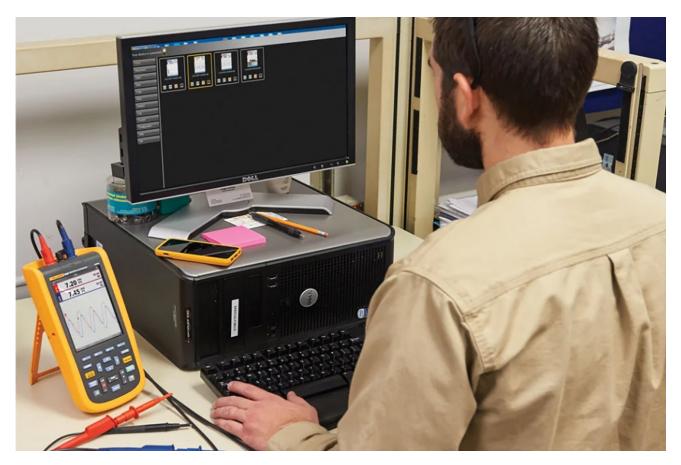
The Auto Readings function with Fluke IntellaSet[™] technology uses proprietary algorithms to intelligently analyze the measured waveform and automatically display the most appropriate numerical measurements on-screen, so you can get the data you need easier than ever before. For example, when the measured waveform is a line voltage signal, the V rms and Hz readings are automatically displayed, whereas if the measured waveform is a square wave, the V peak-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.

Harmonics function measures periodic distortions

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 into the electrical state of health of your loads.







Comprehensive recorder modes help find intermittent faults

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 microSD 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.

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

Specifications: Fluke 120B Series Industrial ScopeMeter handheld Oscilloscopes

Oscilloscope mode

Vertical



	Without probes and test leads (with BB120)	123B: dc to 20 MHz (-3 dB) 124B and 125B: dc to 40 MHz (-3 dB)
Frequency response - dc coupled	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)
	Without probes and test leads	<10 Hz (-3 dB)
Frequency response - ac coupled (lf roll off)	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	
	Without probes and test leads	1 MΩ//20 pF
	With BB120	1 MΩ//24 pF
Input impedance	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	А, -А, В, -В	
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	
	Equivalent compling	123B: 20 ns to 500 ns/div,
	Equivalent sampling	124B and 125B: 10 ns to 500 ns/div
Ranges (normal)	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	Equivalent sampling (repetitive signals)	Up to 4 GS/s
simultaneously)	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	
		123B: 4 divisions	
	@ 40 MHz	124B and 125B: 1.5 divisions	
		123B: N/A	
	@ 60 MHz	124B and 125B: 4 divisions	
Slope	Positive, negative	Positive, negative	

Advanced scope functions

	Normal	Captures up to 25 ns glitches and displays analog-like persistence waveform
Display modes	Smooth	Suppresses noise from a waveform
Display modes	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)

be voltage (vbe)			
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, c	or 400 Hz	
Full scale reading	5000 counts	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 to 60 Hz (V ac+dc)	±(1% +10 counts)	
(DC coupled)	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 (CMDD)	>100 dB @ dc >60 dB @ 50, 60, or 400 Hz		
Common mode rejection (CMRR)			
Full scale reading	5000 counts, reading is independent of any signal crest factor.		
Peak			



Modes	Max peak, Min peak, or pk-to-pl	Max peak, Min peak, or pk-to-pk	
Ranges	500 mV, 5 V, 50 V, 500 V, 2200 \	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)			
	123B: 1 Hz, 10 Hz, 100 Hz, 1 kH	z, 10 kHz, 100 kHz,1 MHz, 10 MHz, and 50 MHz	
Ranges	124B and 125B: 1 Hz, 10 Hz, 10 and 70 MHz	0 Hz, 1 kHz, 10 kHz, 100 kHz, 1 MHz, 10 MHz,	
Frequency range	15 Hz (1 Hz) to 50 MHz in contir	nuous autoset	
Accuracy @1 Hz to 1 MHz	±(0.5% +2 counts)		
Full scale reading	10,000 counts		
RPM			
Max reading	50.00 kRPM	50.00 kRPM	
Accuracy	±(0.5% +2 counts)		
Duty cycle (PULSE)			
Range	2% to 98%	2% to 98%	
Frequency range	15 Hz (1 Hz) to 30 MHz in contir	15 Hz (1 Hz) to 30 MHz in continuous autoset	
Pulse width (PULSE)			
Frequency range	15 Hz (1 Hz) to 30 MHz in contir	15 Hz (1 Hz) to 30 MHz in continuous autoset	
Full scale reading	1000 counts	1000 counts	
Amperes (AMP)			
	Ranges	Same as V dc, V ac, V ac+dc, or PEAK	
With current clamp	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 o	otional temperature probe		
Range	200 °C/div (200 °F/div)		
Scale factor	1 mV/°C and 1 mV/°F	1 mV/°C and 1 mV/°F	
Accuracy	As V dc (add temp. probe uncer	As V dc (add temp. probe uncertainty)	
Decibel (dB)			
0 dBV	1 V	1 V	
0 dBm (600 Ω /50 Ω)	1 mW referenced to 600 Ω or 50	1 mW referenced to 600 Ω or 50 Ω	
dB on	V dc, V ac, or Vac+dc	V dc, V ac, or Vac+dc	
Full scale reading	1000 counts	1000 counts	



Crest factor (CREST)			
Range	1 to 10	1 to 10	
Full scale reading	90 Counts	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 conduc component only, AUTOSET	tor balanced loads (3 phase: fundamental mode only)	
Power factor (PF)	Ratio between was and VA r	range - 0.00 to 1.00	
Wa	RMS reading of multiplying input B (amperes)	corresponding samples of input A (volts) and	
	Full scale reading	999 counts	
VA	Vrms x Arms		
VA	Full scale reading	999 counts	
VA reactive (var)	$\Box((VA)^2-W^2)$	$\Box((VA)^2-W^2)$	
VA reactive (var)	Full scale reading	999 counts	
Vpwm			
Purpose	To measure on pulse width outputs	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 signal	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	
Ranges	125B	50 Ω, 500 Ω , 5 kΩ, 50 kΩ, 500 kΩ, 5 ΜΩ, 30 ΜΩ	
Accuracy	±(0.6% + 5 counts) 50 Ω ±(20	±(0.6% + 5 counts) 50 Ω ±(2% + 20 counts)	
Full scale reading	50 Ω to 5 M Ω - 5000 counts,	50 Ω to 5 M Ω - 5000 counts, 30 M Ω - 3000 counts	
Measurement current	0.5 mA to 50 nA, decreases	0.5 mA to 50 nA, decreases with increasing ranges	
Open circuit voltage	<4 V	<4 V	
Continuity (Cont)			
Веер	<(30 Ω ±5 Ω) in 50 Ω range	<(30 Ω ±5 Ω) in 50 Ω range	
Measurement current	0.5 mA	0.5 mA	
Detection of shorts of	01 ms	01 ms	



Diode			
	@0.5 mA		>2.8 V
Measurement voltage	@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, increase	es with incre	asing ranges
Advanced meter functions			
Zero Set	Set actual value to referer	ice	
AutoHold (on A)	AutoHold works on the m	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 aenuat	Activated by using aenuation keys	
Cursor Readout (124B and 125	B)		
Sources	А, В	А, В	
	Average, min and max rea	Average, min and max readout	
C 1 1	Average, min, max and tin in HOLD)	ne from star	t of readout (in ROLL mode; instrument
Single vertical line	Min, max and time from si HOLD)	Min, max and time from start of readout (in RECORDER mode; instrument in HOLD)	
	Harmonics values in POW	Harmonics values in POWER QUALITY mode.	
	Peak-peak, time distance a	Peak-peak, time distance and reciprocal time distance readout	
Dual vertical lines	Average, min, max and tin HOLD)	Average, min, max and time distance readout (in ROLL mode; instrument in HOLD)	
Dual horizontal lines	High, low and peak-peak r	High, low and peak-peak readout	
Rise or fall time	auto leveling only	Transition time, 0%-level and 100%-level readout (manual or auto leveling; auto leveling only possible in single channel mode)	
Accuracy	As oscilloscope 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 inteal 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 measurement/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 Inteal memory	400 M samples Recorded Time	
Span inteal 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	Wa, VA, var, PF, DPF, Hz	
	250 W to 250 MW, 625 MW, 1.56 GW	
Wa, VA, var ranges (auto)	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)	Vrms / Arms /Wa	Each harmonic from fundamental maybe selected for individual readings
Includes frequency of fundamental, pl	nase Angle and K-factor (in Amp and Wa)
BusHealth tester (Fluke 125B only)		
Туре	Subtype	Protocol
AS-i	NEN-EN50295	
CAN	ISO-11898	
Interbus S	RS-422	EIA-422
Modbus	RS-232	RS-232/EIA-232
Moubus	RS-485	RS-485/EIA-485
Foundation Fieldbus	H1	61158 type 1, 31.25 kBit
Profibus	DP	EIA-485
	PA 61158 type 1	
Miscellaneous		
Display	Туре	5.7-inch color active matrix TFT
Display	Resolution	640 x 480 pixels



Moustarra Dianlau	Vertical	10 div of 40 pixels	
Waveform Display	Horizontal	12 div of 40 pixels	
	Exteal	Via Power Adapter BC430	
	Input voltage	10 V DC to 21 V DC	
	Power consumption	5 W typical	
	Input connector	5 mm jack	
	Inteal	Via Baery Pack BP290	
Power	Baery 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	Inteal 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 x 132 x 55 mm (10.2 x 5.2 x 2.15 in)	
	Weight	1.4 kg (3.2 lb) including baery pack	
	Optically isolated	Transfer screen copies (bitmaps), seings and data	
	USB to PC/laptop	OC4USB optically isolated USB adapter/cable, (optional), using FlukeView® software for Windows®.	
Interface	Optional WiFi adapter	Fast transfer of screen copies (bitmaps), seings and data to PC/laptop, tablet, smartphone, etc. A USB port is provided for aaching the WiFi dongle. Do not use the USB port with a cable for safety reasons.	
Environmental			
Environmental	MIL-PRF-28800F, Class 2	MIL-PRF-28800F, Class 2	
	Baery Operation	0 to 40 °C (32 to 104 °F)	
Temperature	Power Adapter Operation	0 to 50 °C (32 to 122 °F)	
	Storage	-20 to 60 °C (-4 to 140 °F)	
	@ 0 to 10 °C (32 to 50 °F)	Non-condensing	
	@ 10 to 30 °C (50 to 86 °F)	95%	
Humidity (Operating)	@ 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)	Non-condensing	



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)
	Inteational	IEC 61326-1: Industrial, CISPR 11: Group 1, Class A
EMC electromagnetic compatibility	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 adaptor	Frequency range	2412 MHz to 2462 MHz
Wireless radio with adapter	Output power	<100 mW
Enclosure protection	IP51, ref: EN/IEC60529	
	General	IEC 61010-1: Pollution Degree 2
Safety	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



Ordering information



FLUKE-125B/NA

Fluke 125B Industrial ScopeMeter® Hand-Held Oscilloscope (40 MHz), North America version

Includes:

- Fluke 125B Hand-Held Oscilloscope
- Shielded Test Leads with Black Ground Leads
- Test Lead Black (for Grounding)
- Hook Clips (red, blue)
- Banana-to-BNC Adapters (black, x1)
- 10:1 Voltage Probe
- i400s AC Current Clamp
- USB Angled Adapter
- WiFi USB Adapter*
- Switch Mode Power Supply, Adapter/Battery Charger
- Rechargeable Li-ion Battery Pack

FLUKE-123B/NA/S

Fluke 123B Industrial ScopeMeter® Hand-Held Oscilloscope (20 MHz), North America version, with Soft Carrying Case, Magnetic Hanger, FlukeView® ScopeMeter® Software for Windows®, Screen Protector

Includes:

- Fluke 123B Hand-Held Oscilloscope
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- Banana-to-BNC Adapters (black, x1)

¹⁴ Fluke Corporation Fluke 120B Series Industrial ScopeMeter handheld Oscilloscopes



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FLUKE-124B/NA

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- Screen Protector



Fluke. Keeping your world up and running.®

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