

(Drive Capability = 24V compliance or 1200Ω @ 20 mA)

Frequency	to 19,999 kHz	0.005% + 1 LSD
Continuity	Beeps for resistance < 100Ω	
Voltage measurement	0 - 1000V ac (true rms) or dc	0.1 mV - 1.0 V 0.1% Rdg + 1 LSD (Vdc)
Resistance measurement	to 40 MΩ	0.2% + 1 LSD
Diode test	2.0 V shows diode voltage drop	

Environmental specifications

Operating temperature	-20°C to 55°C
Storage temperature	-40°C to 60°C
Humidity (without condensation)	95% up to 30°C
	75% up to 40°C
	45% up to 50°C
	35% up to 55°C
Temperature coefficient	0.05 x (specified accuracy) per°C (for temperatures < 18°C or > 28°C)

Safety specifications
Electrical safety: Designed in accordance with IEC 1010-1, ANSI/ISA S82.01-1994 and CAN/CSA C22.2 No. 1010.1-92

Overvoltage category: IEC 1010-1 CAT III
Maximum voltage: 1000 V rms

General specifications

Weight	600g
Shock and vibration	Random, 2 g, 5-500 Hz 1 meter drop test
Battery	4 x AA alkaline batteries.
Battery life	140 hours typical (measurement), 10 hours typical (sourcing 20 mA)
Accessories included	AC72 alligator clips, 4 x AA 9V alkaline battery (installed), TL71 safety-designated test lead set, users manual & quick reference guide

Prices where indicated by a **+** are subject to change. Please call your local sales office or visit www.farnellinone.com for the latest prices.

Mfrs. List No.	Order Code	1+	+	+	+
FLUKE 789	427-0034	+	+	+	+
C101 Carry Case	947-9783	+	+	+	+
Standard Calibration Charge	S[C14]				
UKAS Calibration Charge	N[C14]				

Multifunction Process Calibrator
725 and 725Ex



H=96
W=200
D=47

LATEST PRICING

The Fluke 725 Multifunction Calibrators are a versatile, easy to use field calibrators. Use the measure and source functions to test and calibrate almost anything. The 725Ex model is an ATEX compliant intrinsically safe version ideal for locations where explosive gasses may be present.

- Rugged, reliable design stands up to field use
- Easy to read measure/source screen lets you view input and output simultaneously
- Measure volts, mA, RTDs, thermocouples, frequency, and ohms to test sensors and Transmitters
- Source/simulate volts, mA, thermocouples, RTDs, frequency, ohms, and pressure to calibrate transmitters
- Support flow meter testing with frequency and CPM (counts per minute) functions
- Perform fast linearity tests with auto step and auto ramp features
- Power transmitters during test using loop supply with simultaneous mA measurement
- Store frequently used test setups for later use
- Backlight lets you work in poor light
- Remote interface allows benchtop automated operations

Summary specifications (18°C to 28°C for one year)

Function	Range	Resolution	Accuracy	Notes
Measure or source				
Voltage	0 to 100mV 0 to 10V (source) 0 to 30V (measure)	0.01mV 0.01V 0.01V	0.02% Rdg + 2 LSD	Max Load 1 mA
mA	0 to 24	0.001mA	0.02% Rdg + 2 LSD	Max load 1000Ω
mV	-10.00mV to + 75.00mV	0.01mV	0.025% + of range + 1 LSD	
Resistance	15Ω to 3200Ω	0.01Ω to 0.1Ω	0.01Ω to 0.1Ω	
Frequency	1CPM to 10kHz	5 digits	0.05% + 1 count	Squarewave
Loop supply	24Vdc	N/A	10%	
Thermocouples	J,K,T,E,L,N,U	0.1°C	0.7°C	
Thermocouples	B,R,S	1°C to 1.4°C		
RTDs	Ni120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916) Pt 100 (3926)			
Maximum voltage	30V			
Storage temp.	-40°C to 71°C			
Operating temp.	10°C to 55°C			
Relative humidity	95%(10°C to 35°C); 75%(30°C to 40°C); 45%(40°C to 50°C); 35%(50°C to 55°C)			
Shock	30g, 11ms, half-sine shock (or 1 metre drop test)			
Vibration	Random, 2g, 5-500 Hz			

Safety (Model 725)
Safety (Model 725Ex)

CSA C22.2 No. 1010.1:1994 Class B
ATEX Ex (II 1G EEx ia IIB) 171°C KEMA 04ATEX 1303X,
I.S. Class I, Div I Groups B-D, 171°C compliant

Weight: 650g
Battery: 4 AA alkaline batteries. Battery life: 25 hours typical

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222577

Mfrs. List No.	Order Code	1+	+	+
FLUKE 725	318-3300	+	+	+
FLUKE 725EX	947-9880	+	+	+
C101 Carry Case	947-9783	+	+	+
Standard Calibration Charge	S[C18]			

Low Resistance Meter

Milli-Ohmmeter
M210

RHOPOINT COMPONENTS



H=150, W=80, D=38 (Meter)
H=155, W=145, D=45 (Case)

Resistance is measured using a 'Kelvin' configuration of four wires terminating into two crocodile clips, thereby eliminating errors caused by test lead resistance and simplifies circuit connection.

Suitable for testing the resistance of relay and switch contacts, transformer and motor windings, pcb track and through hole plating, earth bonding, mains ring circuits, and for selecting and matching resistors and strain gauges.

- Battery operated
- Accurate low resistance measurement between 0.001Ω to 200Ω.
- Autoranging
- Auto power off, 3 minutes after last measurement
- Supplied with 'Ever Ready' carrying case, test leads and operating instructions
- Lightweight, portable

Ranges	1.999R, 19.99R, 199.9R	Temperature drift	0.013%/°C
Accuracy	+/-0.1% of range	Display	3½ digit LCD, 12mm character height
Resolution	0.001R, 0.01R, 0.1R	Operating temperature	5 to 35°C
Zero offset	+/-0.001R	Battery	One 9V PP3 (20hrs life, continuous use) not supplied
Test current	5mA (max)	Weight	510g (inc. case)
Test power	5mW (max)		

The meter requires a 9V PP3 battery **not supplied**.

222340

Mfrs. List No.	Order Code	1+	+	+
M210	109-279	19,230.00		
Standard Calibration Charge	S [C9]			
UKAS Calibration Charge	N [C9]			

Micro and Milli Ohmmeter
BS407

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H=98, W=219, D=240, Weight 1.5kg

The BS407 is a fully portable instrument capable of measuring very low resistances to high accuracy. The unusually wide measuring range combined with features such as a 20mV clamp make it suitable for a wide range of applications. Supplied with Kelvin test lead set, operating manual and mains lead.

- Wide measurement range of 1μΩ to 20kΩ
- Four terminal measurement using Kelvin lead set
- High basic accuracy of 0.1%
- Current reversal switch for thermal emf detection
- Current diversion switch for easy zero setting
- Battery operation (Ni-MH) with built-in charger
- Minimal warm-up time
- Switchable 20mV clamp for 'dry circuit' testing

Range	Resolution	Test Current
1999μΩ	1μΩ	250mA
19.99mΩ	10μΩ	50mA
199.9mΩ	100μΩ	10mA
1999mΩ	100mΩ	5mA
19.99Ω	10mΩ	500μA
199.9Ω	100mΩ	50μA
1Ω	100mΩ	50μA
19.99kΩ	100Ω	10μA

Accuracy: 0.1% range ± 0.05% reading
Temp Coeff. ±30ppm
Power: Internal Ni-MH batteries giving from 8 to 150 hours operation. Built-in mains charger 230V or 115V internal setting.
Safety and EMC: Complies with EN61010-1 and EN61326

Test Equipment - Electrical / Environmental

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Compliant Non-compliant
RoHS Limited stock - RoHS replacement available