



17718A



Features

- 4-20mA (1KΩ Load, 24V Loop Supply) with 1μA Resolution
- 0-100.00mV, 0-1.0000V, 0-12.000V
- K, J, E & T Thermocouples (°C and °F)
- Frequency : 1-62500 Hz
- DC Current Basic Accuracy : 0.025%
- Easy Key Pad Number Operation
- Easy Step and Auto Ramp Functions
- 0-20mA & 0-24mA Selectable
- 0-100% Output (mA, mV, V)
- Beeper Warning when Output is Open (mA) or Short (mV, V)

Electrical Specifications (23°C ± 5°C, 5 minutes after power is on)

mA DC Current (1KΩ max. Load, 24V Loop Supply)		
Range	Resolution	Accuracy
4-20 mA, 0-20 mA, 0-24 mA	1 μA	± 0.025%rdg ± 3μA

Beeper Warning when Output is Open and specified Current Output > 1mA

V DC Voltage (1 mA Supply Current)		
Range	Resolution	Accuracy
0-100.00 mV	10 μV	± 0.05%rdg ± 30 μV
0-1.0000 V	100 μV	± 0.05%rdg ± 300 μV
0-12.000 V	1 mV	± 0.05%rdg ± 3mV

Beeper Warning when Output is short and specified Voltage Output > 10mV

Frequency (1 KΩ Load Min.)		
Range	Resolution	Accuracy
1-125 Hz	1 Hz	± 0.04 Hz
126-62500 Hz	1 Hz	± 0.01% ± 0.04 Hz

K, J, E and T Type Thermocouples (1°C, 1°F Resolution, 1KΩ Load Min.)			
Range	Accuracy	Range	Accuracy
K : -200 to -100°C	± 2.0°C	K : -328 to -148°F	± 3.6°F
K : -100 to 0°C	± 1.1°C	K : -148 to 32°F	± 1.8°F
K : 0 to 1370°C	± 0.8°C	K : 32 to 2400°F	± 1.5°F
J : -100 to 0°C	± 0.9°C	J : -148 to 32°F	± 1.6°F
J : 0 to 760°C	± 0.7°C	J : 32 to 1400°F	± 1.2°F
E : -100 to 0°C	± 0.9°C	E : -148 to 32°F	± 1.6°F
E : 0 to 700°C	± 0.7°C	E : 32 to 1292°F	± 1.2°F
T : -200 to 0°C	± 1.0°C	T : -328 to 32°F	± 1.8°F
T : 0 to 400°C	± 0.8°C	T : 32 to 752°F	± 1.5°F

General Specifications

Battery Type	9V Eveready Type 216 or Equivalent & External Battery Pack (6 x 1.5V AA Batteries)
Display	4 and 5 Digits LCD Display with Annunciator
Operating Environment	0° to 50°C (32 to 122°F), RH < 85%
Storage Environment	-20°C to 60°C (-4 to 140°F), RH < 85%
Dimensions	88 x 168 x 38 mm (approx.)
Weight	330gms Including Battery (approx.)
Accessories	Carrying Case x 1, Users Manual x 1, K type Thermocouple Connector x 1, External Battery Pack Holder 1.5V AA Batteries x 6, 9V Battery (installed), Pair of Alligator Test Leads x 1

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

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Universal Calibrator gives a standard output for AC Voltage, DC Voltage, AC Current & DC Current. Keys or Knob help to adjust the magnitude of the output signals. Important features include wide range, high accuracy, good stabilization, easy operation and portability. The Calibrator is ideal for testing ammeters and voltmeters upto 0.2 accuracy class.

Applications

- Calibration of AC Volt, Amp, Frequency Meters
- Calibration of DC Volt, Amp Meters
- Calibration of Resistance Meters, Clamp Meters, Multimeters

Standard Accessories

- 1 x Key Adjuster
- 1 x Power Cord
- 1 x Pair of Output Leads
- 2 x Fuse (2A)
- 1 x Data Cable for PC Connectivity
- 1 x Operation Manual

Optional Accessories 17718AA3

- Standard Current Coil



Turns Ratio	50 / 1
Input Max.	20A
Current	1000A
Clamp Jaw	> 28mm
DC Impedance	0.9Ω
DC Burden	20A / 1.3V
AC Burden	20A / 3V
Frequencies	DC to 60Hz
Accuracy	± 0.3% rdg

Technical Specifications

Control Type	Parameter	Specifications
Voltage Control	Output Voltage Range :	200mV, 1V, 2V, 5V, 10V, 20V, 50V, 100V, 200V, 500V, 1000V
	Basic Error :	DCV : ± (0.03 %RD + 0.02 %FS) ACV : ± (0.05 %RD + 0.03 %FS)
Current Control	Output Current Range :	100μA, 500μA, 2mA, 5mA, 20mA, 50mA, 200mA, 500mA, 2A, 5A, 20A
	Basic Error :	DCI : ± (0.05 %RD + 0.02 %FS) ACI : ± (0.07 %RD + 0.03 %FS)
Frequency Control	Frequency Range :	50Hz, 60Hz, 400Hz
	Frequency Error :	< 1 %
Resistance Control	Resistance Range :	10, 24, 50, 100, 240, 500 (Ω), 1, 2.4, 5, 10, 24 (kΩ), 10x1k, 24x1k, 50x1k, 100x1k, 240x1k, 500x1k, 1kx1k, 2.4kx1k, 5kx1k, 10kx1k, 24kx1k
	Basic Error :	± 0.2 % + 20mΩ

Note - RD : Reading, FS : Full Scale

General Specifications

- Stability DC : < 0.01 %FS / 2 min, AC : < 0.03 %FS / 2 min
- Ripple : < 0.1 %
- Power Supply : 230 VAC, 50 (60) Hz
- Power Consumption : < 180 VA
- Operating Temperature : 5°C to 35°C
- Relative Humidity : ≤ 80 %
- Distortion : < 0.5 %
- Display : 5½ Digit LED Digital Display
- Step adjustment of Output Signal : 10 %FS, 1 %FS, 0.1 %FS, 0.05 %FS
- Dimensions : 147 x 480 x 480mm (approx.)
- Total Weight : 17 kgs (approx.)

Note: Specifications are subject to change.

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17718C

Multifunctional calibrator can output standard AC voltage, DC voltage, AC current & DC current. Output actual value, percent and FS display at the same time. Calibrator may select FS (full scale) and relevant step in according with scale of UUT (unit under test). Keys or knobs adjust magnitude of the output signals. Wide range, high accuracy, good stabilization, easy operation and portable. The calibrator applies to test amperemeter and voltmeter upto 0.2 class.

Applications

- Calibration of AC Volt, Amp, Frequency Meters
- Calibration of DC Volt, Amp Meters
- Calibration of Resistance Meters, Clamp & Multi Meters

Standard Accessories

- 1 x Key Adjuster
- 1 x Power Cord
- 1 x Pair of Output Leads
- 1 x Pair of Output Leads (50A)
- 2 x Fuse (4A)
- 1 x Data Cable for PC Connectivity
- 1 x Operation Manual

Optional Accessories 17718AA1/2

- Standard Current Coil



Turns Ratio	100 / 1	100 / 1
Input Max.	5A	10A
Current	500A	1000A
Clamp Jaw	>20mm	>28mm
DC Impedance	0.7Ω	0.9Ω
DC Burden	5A / 3.5V	10A / 2.5V
AC Burden	5A / 6V	10A / 5V
Frequencies	DC to 60Hz	DC to 60Hz
Accuracy	±0.3% rdg	±0.3% rdg

Technical Specifications

Voltage Control	Output Voltage Range :	250mV, 1V, 2.5V, 5V, 10V, 25V, 50V, 100V, 250V, 500V, 1000V
	Basic Error :	DCV : ± (0.02 %RD + 0.01 %FS) ACV : ± (0.05 %RD + 0.02 %FS)
Current Control	Output Current Range :	100μA, 500μA, 2.5mA, 10mA, 25mA, 100mA, 250mA, 1A, 2.5A, 10A, 50A
	Basic Error :	DCI : ± (0.02 %RD + 0.01 %FS) ACI : ± (0.05 %RD + 0.02 %FS)
Frequency Control	Frequency Range :	50Hz, 60Hz, 400Hz, 1kHz
	Frequency Error :	< 0.1 %
Resistance Control	Resistance Range :	10, 24, 50, 100, 240, 500 (Ω), 1, 2.4, 5, 10, 24 (kΩ), 10x1k, 24x1k, 50x1k, 100x1k, 240x1k, 500x1k, 1kx1k, 2.4kx1k, 5kx1k, 10kx1k, 24kx1k
	Basic Error :	± 0.2 % + 20mΩ

General Specifications

Note - RD : Reading, FS : Full Scale

- Stability DC : < 0.01 %FS / 3 min, AC : < 0.02 %FS / 3 min
- Ripple : < 0.2 %
- Power Supply : 230 VAC, 50 (60) Hz
- Power Consumption : < 250 VA
- Operating Temperature : 5°C to 35°C
- Relative Humidity : ≤ 80 %
- Distortion : < 0.5 %
- Display : 5½ Digit LED Digital Display
- Step adjustment of Output Signal : 100 %FS / N, 10 %FS / N, 1 %FS / N, 0.1 %FS / N (N = 4, 5, 6, 10 and 15)
- Dimensions : 190 x 480 x 545mm (approx.)
- Total Weight : 22.5 kgs (approx.)

Note: Specifications are subject to change.

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17718D

MODEL 90P AC multifunctional calibrator can output standard AC voltage and AC current. It measures AC Voltage, AC current, power, phase angle, power factor and frequency (40Hz ~ 70Hz). Wide output range of current and voltage; High reliability and low wave distortion.

Applications

- Calibration of Power Meters, AC Volt, Amp, Watt, Var, Frequency, Powerfactor, Phase Angle and Energy Meters.
- Calibration of Voltage, Current, Active & Reactive Power, Frequency, Powerfactor, Phase angle and Energy Transducers.

Standard Accessories

- 1 x Key Adjuster
- 1 x Power Cord
- 1 x Pair of Output Leads
- 1 x Pair of Output Leads (50A / 100A)
- 2 x Fuse (4A)
- 1 x Data Cable for PC Connectivity
- 1 x Operation Manual

Optional Accessories 17718AA1/2

- Standard Current Coil



Turns Ratio	100 / 1	100 / 1
Input Max.	5A	10A
Current	500A	1000A
Clamp Jaw	>20mm	>28mm
DC Impedance	0.7Ω	0.9Ω
DC Burden	5A / 3.5V	10A / 2.5V
AC Burden	5A / 6V	10A / 5V
Frequencies	DC to 60Hz	DC to 60Hz
Accuracy	±0.3% rdg	±0.3% rdg

Technical Specifications

Voltage Control	Output Voltage Range :	1V, 2V, 5V, 10V, 20V, 50V, 75V, 150V, 300V, 600V, 1000V
	Min. Resolution :	0.02mV
	Basic Error :	AC V : ± (0.03 %RD + 0.02 %FS)
Current Control	Output Current Range :	10mA, 20mA, 50mA, 200mA, 1A, 2A, 5A, 10A, 25A, 50A, 100A
	Min. Resolution :	0.2μA
	Basic Error :	AC I : ± (0.03 %RD + 0.02 %FS)
Frequency Control	Frequency Range :	40Hz to 70Hz
	Frequency Error :	± 0.02 Hz
Phase Control	Phase Angle Range :	0 to 359.99°
	Phase Error :	± 0.05°

General Specifications

Note - RD : Reading, FS : Full Scale

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| ● Power Range : 0 to 100kW | ● Power Supply : 230 VAC, 50 (60) Hz |
| ● Power Basic Error : ± (0.07 %RD + 0.03 %FS) | ● Power Consumption : < 300 VA |
| ● Stability V, I : < 0.01 %FS / 2 min, P : < 0.02 %FS / 2 min | ● Display : 5½ Digit VFD Digital Display |
| ● Distortion : < 0.5 % | ● Operating Temperature : 5°C to 35°C |
| ● Power Factor Range : -1 to +1 | ● Relative Humidity : ≤80 % |
| ● Power Factor Basic Error : ± 0.001 (PF 0 to ±0.8); ±0.0005 (PF -0.8 to -1, +0.8 to +1) | ● Dimensions : 192 x 480 x 540mm (approx.) |
| | ● Total Weight : 23 kgs (approx.) |

Note: Specifications are subject to change.

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