

# Fluke 712B, 714B and 724 Temperature Calibrators



Fluke 714B



Fluke 712B



## Accuracy and simplicity

The Fluke 712B and 714B are designed for both simplicity, ease of use and high accuracy. They are a powerful combination of temperature and loop calibration.

### Fluke 714B Thermocouple Calibrator

- Measure and simulate 17 different thermocouple types and millivolts
- Measure 4–20 mA signals while simultaneously sourcing a temperature signal
- Hanging tool designed in and included with every unit
- Configurable 0% and 100% source settings for quick 25% linearity checks
- Linear ramp and 25% step auto ramp based on 0% and 100% settings
- Dual inputs and backlit display for easy interpretation of measurements
- Power-down settings remembered at power up for easy restart of tests
- 1 and 2 year specifications and traceable certificate of calibration
- Three-year warranty

### Fluke 712B RTD Calibrator

- Measure and simulate 13 different RTD types and resistance
- Measure 4–20 mA signals while simultaneously sourcing a temperature signal
- Configurable 0% and 100% source settings for quick 25% linearity checks
- Linear ramp and 25% step auto ramp based on 0% and 100% settings
- Dual inputs and backlit display for easy interpretation of measurements
- 1-year and 2-year specifications and traceable certificate of calibration
- Three-year warranty

| General Specifications                                  | 712B   | 714B |
|---|--|------|
| Operating Temperature                                   | -10° C to 50° C (14° F to 122° F)  |      |
| Operating Altitude                                      | 2000 m (6561 ft)   |      |
| Relative Humidity (% RH operating without condensation) | Non condensing 90% (10° C to 30° C (14° F to 86° F)),<br>75% (30° C to 40° C (86° F to 104° F)),<br>45% (40° C to 50° C (104° F to 122° F)) (Without condensation) |      |
| Vibration Requirements                                  | MIL-T-28800E, Class 2  |      |
| Drop Test Requirements                                  | 1 m (3.28 ft)  |      |
| Ingress Protection                                      | IEC 60529: IP52  |      |
| Safety  | IEC 61010-1, Max 30 V to earth, Pollution Degree 2   |      |
| Power Supply  | Four AA NEDA 15A IEC LR6 batteries   |      |
| <b>DC mA Measurement</b>                                |  |      |
| Resolution  | 0–24 mA  |      |
| Range   | 0.001 mA   |      |
| Accuracy (% of reading + counts)                        | 0.01% + 2 $\mu$ A  |      |
| <b>Ohms Measurement</b>                                 |  |      |
| Ohms range  | 0.00 $\Omega$ to 400.00 $\Omega$ ,<br>400.0 $\Omega$ to 4000.0 $\Omega$  |      |
| Accuracy (% of reading + counts)                        | 0.01% + 0.05 $\Omega$ , 0.01% + 0.5 $\Omega$   |      |
| <b>Ohms Source</b>                                      |  |      |
| Ohms Range  | 1.0 $\Omega$ to 400.0 $\Omega$ , 1.00 $\Omega$ to 400.00 $\Omega$ , 400.0 $\Omega$ to 1500.0 $\Omega$ , 1500.0 $\Omega$ to 4000.0 $\Omega$                         |      |
| Accuracy (% of reading + counts)                        | 0.01% + 0.1 $\Omega$ , 0.01% + 0.05 $\Omega$ , 0.01% + 0.5 $\Omega$ , 0.01% + 0.5 $\Omega$   |      |
| <b>Resolution</b>                                       |  |      |
| 0.00 $\Omega$ to 400.00 $\Omega$                        | 0.01 $\Omega$  |      |
| 400.0 $\Omega$ to 4000.0 $\Omega$                       | 0.1 $\Omega$   |      |
| <b>Millivolt Measurement &amp; Source</b>               |  |      |
| Resolution  | -10 mV to 75 mV  |      |
| Range   | 0.01 mV  |      |
| Accuracy (% of reading + counts)                        | 0.01% + 10 mV  |      |

## Specialty Model

### Fluke 724 Temperature Calibrator

- Easy to read dual display allows for input and output simultaneous view
- Source/measure TCs, RTDs, volts and ohms
- Measure mA while supplying loop power
- 25% and 100% stepping, auto-step and auto ramp



## Recommended Accessories



**TPAK**  
Magnetic Meter Hanger



**AC220**  
SureGrip™ Alligator Clips

## Fluke 712/724



**TL175**  
TwistGuard™  
Test Leads



**TL220**  
SureGrip™ Industrial Test  
Lead Set



**80PK-24**  
SureGrip™ Air Temperature  
Probe



**80PK-3A**  
Surface Probe



**C101**  
Meter Hard Case



**C25**  
Large Soft Case

## Included Accessories

**Fluke 714B/712B:** Magnetic Hanging Tool, Batteries, Manual, Traceable Calibration Certificate and Test Leads.

**Fluke 724:** TL175 Test Leads, AC175 Test Clips, Stackable Test Leads (1 pair), Spare Fuse, User Manual and Traceable Certificate of Calibration.

## Ordering Information

|                   |   |
|-------------------|---|
| <b>FLUKE-714B</b> | Thermocouple<br>Temperature<br>Calibrator |
| <b>FLUKE-712B</b> | RTD Calibrator                            |
| <b>FLUKE-724</b>  | Temperature<br>Calibrator                 |