





## SEFRAM7212 Autorange TRMS AC multimeter

The SEFRAM7212 is a compact digital multimeter with advanced features, designed to meet the needs of electricians, heating engineers, and maintenance services.

He is equipped with a large **backlit** LCD screen with a **bargraph**, providing clear visualization of measurements. It also has a built-in **flashlight** to facilitate measurements in dark environments. Furthermore, it is protected against overvoltages on all measurement ranges, ensuring the durability of the device in unstable electrical conditions.

With its current measurement capability in  $\mu$ A, the SEFRAM7212 will allow heating engineers to measure ionization current, that functionality is essential to diagnosing electrical problems in heating systems.

The multimeter includes the essential features such as TRMS AC and DC voltage measurement up to 600V.

The TRMS function is crucial in industrial maintenance applications as it allows for precise measurement of distorted signals. Additionally, for this application, there is the possibility to implement a **VFD filter** to eliminate unwanted harmonic components.

In summary, the SEFRAM7212 is an essential tool for electricians, heating engineers, and maintenance services, offering advanced functionality.

## Key features :

- TRMS AC measurements
- Voltage measurement up to 600V AC/DC
- $\bullet$  Currents measurement from  $\mu A$  up to 10A
- Frequency and capacitance measurement
- Resistance measurement up to 60Mohms
- Non-contact voltage detection
- Continuity test with buzzer
- TRMS measurement bandwidth up to 1kHz
- Dual LCD display with bargraph and backlighting
- Built-in flashlight
- HOLD, MIN/MAX, REL functions
- Safety: 600V CAT III

## Ergonomic design

The SEFRAM7212 multimeter provides easy access to various menus and advanced features such as MIN/MAX, HOLD, and more. All basic measurements such as voltage (V), current (A), resistance  $(\Omega)$ , and continuity remain directly accessible via the rotary switch.

#### TRMS measurement and VFD filter

The SEFRAM7212 multimeter is equipped with the TRMS function and a VFD filter, allowing for precise measurements on installations with variable frequency drives (VFDs) or inverters.

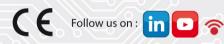
The TRMS function is essential for voltage and current measurements as it considers the true and effective values of signals, even if they are distorted. This ensures accurate measurement, even in complex electrical conditions.

The VFD filter is particularly useful in industrial maintenance applications where VFDs and inverters are present. It eliminates undesirable harmonic components generated by these equipment, providing high-quality measurements.

## A versatile device for all your applications

The SEFRAM7212 multimeter allows voltage measurements ranging from a few mV to 600V AC/DC (TRMS AC) with a bandwidth of up to 1kHz. The range switching is automatic. It enables current measurements from a few  $\mu$ A to 10A AC/DC.

It also features the NCV function, which allows for non-contact voltage detection either through the sensor located on top of the device or with a test lead connected to the device to increase detection sensitivity.







ram 7212





# SEFRAM7212

## Autorange TRMS AC multimeter



Specifications         SPERAW/212           Banges         60mV to 600V - 5 ranges           Banges         100/V to 100mV           Banges         60mV to 600V - 5 ranges           Banges         600pt to 10A - 6 ranges           Banges         600pt to 10A - 7 ranges           Banges         600pt to 10A - 7 ranges           Banges         600pt to 10A - 6 ranges           Banges         600pt to 10A - 6 ranges           Banges         600pt to 20 rack start           Protection         fue to 10MP - 7 ranges           Banges		
Banges         60mV to 600V - 5 ranges.           Basic accuracy         =10.55 + \$3qtb           Resolution         10,0V to 100mV           A Voltages ITEMS)         60mV to 600V - 5 ranges.           Basic accuracy         =10.55 + \$3qtb           Basic accuracy         =10.65 + \$3qtb           Basic accuracy         =10.95 + \$3qtb           Basic accuracy         =10.15 + \$3qtb           Basic accuracy	Specifications	SEFRAM7212
Basic accuracy         #0.5% + 35001           Resolution         10.0 to 100mV           AC Votages (TRMS)         60mV to 600V - 5 ranges           Resolution         10.0 to 100mV           Resolution         10.0 to 100mV           Basic accuracy         40.94 z 50 tikrs           Basic accuracy         40.94 z 50 tikrs           Basic accuracy         40.95 ± 35001           Resolution         0.10 A to 10mA           Protection         0.10 A to 10mA           Ranges         600mA to 100A - 6 ranges           Basic accuracy         40.95 ± 35001           Resolution         0.10 A to 10mA           Ranges         600mA input "mA" and fuse 100 input "A"           AC Currents (TRMS)         600mA input "mA" and fuse 100 input "A"           Resolution         0.10 A to 10mA           Basic accuracy         4.11% ± 5.3001           Basic accuracy         4.11% ± 5.3001           Resolution         0.01 A to 10 input "A"           Protection         fuse 600mA input "mA" and fuse 100 input "A"           Protection         6000 to C or AC RMS           Capacitance         100 A to 100mP           Resolution         0.01 Fto 0.1mP           Basicacuracy         4.53 + 5.3001	DC Voltages	
Resolution         10µV to 100mV           Ranges         60mV to 500V - 5 ranges           Resolution         10µV to 100mV           Basic accuracy         40.8% + 30g1           Basic accuracy         600µA to 10A - 6 ranges           Basic accuracy         0.1µA to 10mA           Basic accuracy         10Hz to 10MHz - 7 ranges           Basic accuracy         10Hz to 10MHz - 6 ranges           Basic	Ranges	
AC Voltages (TRMS)         60mV to 500V - 5 ranges           Resolution         10,40 to 100mV           Basic accuracy         40,80 + 36gt1           Bandwith         600,41 to 10,4. 6 ranges           Bandwith         10,98 + 35gd1           Bandwith         10,98 + 35gd1           Ranges         600,41 to 10,4. 6 ranges           Basic accuracy         400 to 100 + 3000           Protection         Fuse 600mA input "M" and fuse 10A input "A"           AC Currents (TRMs)         6000A to 10A - 6 ranges           Basic accuracy         41% + 5 dg0           Protection         6000 to 10 Cor AC RMS           Capacitance         6000 to 100 Fig. 20 ranges           Basic accuracy         43% + 5 dg0           Protection         6000 to 10 Cor AC RMS           Capacitance         6000 to 10 Cor AC RMS           Basic accuracy         43% + 5 dg0           Protection         6000 to 6 MD - 6 ranges	Basic accuracy	
Ranges         60mV to 600* 5 ranges           Resolution         10µV to 100mV           Balk accuracy         4/0.83 + 3.3QU           Bandwith         0.40x to 10A - 6 ranges           Balk accuracy         2/0.83 + 3.3QU           Balk accuracy         2/0.83 + 3.3QU           Balk accuracy         2/0.83 + 3.3QU           Balk accuracy         2/0.83 + 3.5QU           Balk accuracy         2/0.84 + 3.5QU           Bandwith         0.14x to 10mA           Protection         600u to 10A - 6 ranges           Bandwith         0.14x to 10mA           Bandwith         0.14x to 10mA           Bandwith         0.14x to 10mA           Bandwith         401x to 10MA is provided to 100mA           Protection         fuse foomA input "A"           Frequency         10Hz to 10MHz - 7 ranges           Bask accuracy         2/15x + 5dgU           Bask accuracy         2/15x + 5dgU <t< td=""><td>Resolution</td><td>10μV to 100mV</td></t<>	Resolution	10μV to 100mV
Resolution         10µV to 100mV           Baski accuracy         400,8Y + 36gt)           Bandwith         40hz to 11k4           DC Currents         600µA to 10A - 6 ranges           Baski accuracy         80,9K + 36gt)           Baski accuracy         0,1µA to 10mA           Baski accuracy         0,1µA to 10mA           Resolution         0,1µA to 10mA           Baski accuracy         600µA to 10A - 6 ranges           Resolution         0,1µA to 10mA           Baski accuracy         600µA to 10A - 6 ranges           Resolution         0,1µA to 10mA           Baski accuracy         600µA to 10A - 6 ranges           Resolution         0,1µA to 10mA           Baski accuracy         41% + 54gt)           Baski accuracy         41% + 54gt)           Baski accuracy         10hz to 10hHz - 7 ranges           Baski accuracy         10hz to 10hF           Protection         600V DC or AC RMS           Capacitance         10hr to 100mF           Resolution         0,01nF to 0,1mF           Baski accuracy         43% + 56gt]           Protection         600V DC or AC RMS           Resolution         600V DC or AC RMS           Baski accuracy         1,41% + 56gt]	AC Voltages (TRMS)	
Basic accuracy     ±0.8% + 3.6gb       Basic accuracy     4012 to 1842       DC currents     600µA to 10A - 6 ranges       Basic accuracy     ±0.8% + 3.6gb       Resolution     0,1µA to 10mA       Protection     fuse 600mA input "mA" and fuse 10A input "A"       AC Currents (TRMS)     600µA to 10A - 6 ranges       Basic accuracy     0,1µA to 10mA       Basic accuracy     600µA to 10A - 6 ranges       Basic accuracy     0,1µA to 10mA       Basic accuracy     117% + 5dg1       Basic accuracy     117% + 5dg1       Basic accuracy     10HZ to 10MHZ - 7 ranges       Basic	Ranges	60mV to 600V - 5 ranges
Basic accuracy     ±0.8% + 3.6gb       Basic accuracy     4012 to 1842       DC currents     600µA to 10A - 6 ranges       Basic accuracy     ±0.8% + 3.6gb       Resolution     0,1µA to 10mA       Protection     fuse 600mA input "mA" and fuse 10A input "A"       AC Currents (TRMS)     600µA to 10A - 6 ranges       Basic accuracy     0,1µA to 10mA       Basic accuracy     600µA to 10A - 6 ranges       Basic accuracy     0,1µA to 10mA       Basic accuracy     117% + 5dg1       Basic accuracy     117% + 5dg1       Basic accuracy     10HZ to 10MHZ - 7 ranges       Basic	Resolution	10µV to 100mV
Bandwith         40Hz to 1Hz           Ranges         600μA to 10A - 6 ranges           Basic accuracy         0,1μA to 10A - 6 ranges           Resolution         0,1μA to 10A - 6 ranges           Resolution         600μA to 10A - 6 ranges           Resolution         0,1μA to 10MA           Protection         600μA to 10A - 6 ranges           Resolution         0,1μA to 10MA           Basic accuracy         40Hz to 10M4 - 6 ranges           Resolution         0,1μA to 10M4 - 6 ranges           Basic accuracy         40Hz to 10M4 - 6 ranges           Basic accuracy         41Hz + 5dgt           Basic accuracy         10Hz to 10MHz - 7 ranges           Basic accuracy         40Hz to 10MHz - 7 ranges           Basic accuracy         40Hz to 10MHz - 7 ranges           Basic accuracy<		
Baness         600µ A to 10A + 5 dagb           Basic accuracy         4008% + 5 dagb           Resolution         0.1µ Ato 10M A           Protection         Fuse 600mA input "nA" and fuse 10A input "A"           AC currents (TRMS)         600µ Ato 10A - 6 ranges           Resolution         0.1µ Ato 10M - 6 ranges           Basic accuracy         4.1% + 5.0gb           Bandwith         40Hz to 10Hz           Protection         Fuse 600m in input "na" and fuse 10A input "A"           Frequency         4.1% + 5.0gb           Basic accuracy         4.1% + 5.0gb           Protection         6000 In D0mF           Resolution         0.0mF to 0.0mF           Resolution         0.0mF to 0.0mF           Basic accuracy         4.0% + 5.0gb           Protection         6000 Lo 60MQ - 6 ranges           Basic accuracy         4.12.2% + 5.0gb           Protection         6000 Lo 60MQ - 6 ranges           Basic accuracy         4.12.2% + 5.0gb		
Baness         600µ A to 10A + 5 dagb           Basic accuracy         4008% + 5 dagb           Resolution         0.1µ Ato 10M A           Protection         Fuse 600mA input "nA" and fuse 10A input "A"           AC currents (TRMS)         600µ Ato 10A - 6 ranges           Resolution         0.1µ Ato 10M - 6 ranges           Basic accuracy         4.1% + 5.0gb           Bandwith         40Hz to 10Hz           Protection         Fuse 600m in input "na" and fuse 10A input "A"           Frequency         4.1% + 5.0gb           Basic accuracy         4.1% + 5.0gb           Protection         6000 In D0mF           Resolution         0.0mF to 0.0mF           Resolution         0.0mF to 0.0mF           Basic accuracy         4.0% + 5.0gb           Protection         6000 Lo 60MQ - 6 ranges           Basic accuracy         4.12.2% + 5.0gb           Protection         6000 Lo 60MQ - 6 ranges           Basic accuracy         4.12.2% + 5.0gb	DC Currents	
Basic accuracy         ±0.0% + 3 dgt)           Resolution         0.1µA to 10mA           Protection         fuse 600mA input "mA" and fuse 10A input "A"           AC Currents (TRMS)         600µA to 10mA           Basic accuracy         0.1µA to 10mA           Basic accuracy         0.1µA to 10mA           Basic accuracy         +11% + 5 dgtD           Basic accuracy         10½Z to 14½Z to 14½Z           Ranges         10½Z to 14½Z / ranges           Basic accuracy         +11% + 5 dgtD           Sensitiv         from 400HZ to 10MF to 100mF           Protection         from 200mV           Protection         600V DC or AC RMS           Ranges         10HZ to 10MmF           Basic accuracy         ±13% + 5 dgtD           Sensitiv         from 200mV           Protection         600V DC or AC RMS           Ranges         600Q to 6 0MPL or 100mF           Basic accuracy         ±13% + 5 dgtD           Protection         600V DC or AC RMS           Ranges         600Q to 6 0MD or 6 0mS           Basic accuracy         ±12% + 5 dgtD           Protection         600V DC or AC RMS           Continuity         ✓           Basic accuracy         ±12% + 5 dgtD <td>Ranges</td> <td>600µA to 10A - 6 ranges</td>	Ranges	600µA to 10A - 6 ranges
Resolution         0.1/4. At 0 dnA           Protection         fuse 600PA input "nA" and fuse 10A input "A"           AC Currents (TRMS)         600µA to 10A - 6 ranges           Resolution         0.1/4 to 10PA           Basic accuracy         ±11% + 5dgb           Bandwith         40Hz to 10MHz - 7 ranges           Renges         10Hz to 10MHz - 7 ranges           Basic accuracy         ±11% + 5dgb           Renges         10Hz to 10MHz - 7 ranges           Basic accuracy         ±11% + 5dgb           Ranges         10F to 100mF           Resolution         0.01mF to 0,1mF           Basic accuracy         ±34% + 5dgb           Protection         6000 DC or AC RMS           Resistance         6000 DC or AC RMS           Basic accuracy         ±12% + 5dgb           Protection         6000 DC or AC RMS           Continuity         ✓		
Protection         Fuse 600mA input "mA" and fuse 10A input "A"           Ranges         600µA to 10A - 6 ranges           Resolution         0.1µA to 10mA           Basic accuracy         ±1% + 5dg0           Basic accuracy         141% + 5dg0           Ranges         10µz to 14mA           Ranges         10µz to 14Wz           Protection         Fuse 600mA input "mA" and fuse 10A input "A"           Ranges         10µz to 14Wz           Basic accuracy         ±1% + 5dg0           Sensitiv         from 200mV           Protection         from 200mV           Protection         600V DC or AC RMS           Capacitance         0.01mF to 100mF           Ranges         0.01mF to 100mF           Resistance         600V DC or AC RMS           Ranges         6000 Counts with bargraph           Dode <td></td> <td></td>		
AC Currents (TRMs)         GOUA to 10A - 6 ranges           Renges         0.01A to 10mA           Baski accuracy         41% + 5dgt)           Bandwith         40% to 10MA - 10mA           Protection         fuse 600mA input "mA" and fuse 10A input "A"           Frequency         10Hz to 10MHz - 7 ranges           Baski accuracy         41% + 5dgt)           Sensitivity         from 20mV           Protection         600v DC or AC RMS           Capacitance         0.01HF           Basic accuracy         41% + 5dgt)           Sensitivity         from 20mV           Protection         600v DC or AC RMS           Capacitance         0.01HF           Ranges         0.01HF           Basic accuracy         415% + 5dgt)           Protection         600v DC or AC RMS           Resolution         0.01HF           Basic accuracy         412% + 5dgt)           Protection         6000 to 60Mu - 6 ranges           Basic accuracy         41.2% + 5dgt)           Protection         6000 to C or AC RMS           Continuity         ✓         41.2% + 5dgt)           Diode         ✓         41.2% + 5dgt)           Protection         6000 counts with bargraph		
Ranges         600µk to 10A - 6 ranges           Basic accuracy         0.1µk to 10mA           Basic accuracy         41% to 11kH 2           Protection         Fuse 600mA input "nA" and fuse 10A input "A"           Frequency         01Hz to 10MHz - 7 ranges           Basic accuracy         41% to 12 - 7 ranges           Basic accuracy         10Hz to 10MHz - 7 ranges           Basic accuracy         41% + 5dgt)           Basic accuracy         60W DC or AC RMS           Capacitance         60W DC or AC RMS           Ranges         10nF to 100mF           Resolution         0.01mF to 0.1mF           Basic accuracy         41% + 5dgt)           Protection         60W DC or AC RMS           Resolution         0.01mF to 100mF           Basic accuracy         41% + 5dgt)           Protection         600V DC or AC RMS           Resolution         600V DC or AC RMS           Basic accuracy         41% + 5dgt)           Protection         600V DC or AC RMS           Continuity         -           Diode         -           Functions         MIN, MAX, REL, HOLD           Contrain features         1000 counts with bargraph           Basic accuracy         -		
Resolution         0.14 K to 10mA           Bask: accuracy         31% + 5dqt           Bandwith         40H2 to 14H2           Protection         fruse 600mA input "m4" and fuse 10A input "A"           Frequency         10Hz to 10MHz - 7 ranges           Bask: accuracy         31% + 5dqt           Bask: accuracy         10Hz to 10MHz - 7 ranges           Bask: accuracy         10Hz to 10MHz - 7 ranges           Bask: accuracy         10HT           Protection         600V DC or AC RMS           Capacitance         0.01nF to 0.1mF           Bask: accuracy         ±15% + 5dqt           Protection         600V DC or AC RMS           Resolution         0.01nF to 0.1mF           Bask: accuracy         ±15% + 5dqt           Protection         6000 to 60M2 - 6 ranges           Bask: accuracy         ±1.2% + 5dqt           Protection         6000 to C or AC RMS           Ranges         6000 to C or AC RMS           Bask: accuracy         ±1.2% + 5dqt           Protection         6000 to C or AC RMS           Continuity         ✓           Using         100de           Functions         MIN, MAX, REL, HOLD           Contral features         10D with backit		600uA to 10A - 6 ranges
Basic accuracy     4/1% + 5dgt)       Bandwith     40Hz to 1KHz       Protection     fuse 600mA input "mA" and fuse 10A input "A"       Frequency     10Hz to 10MHz - 7 ranges       Basic accuracy     ± 1% + 5dgt)       Sensity     from 200mV       Capacitance     6000 C or AC RMS       Ranges     10HF to 00mF       Resolution     0.01mF to 0.0mF       Basic accuracy     ± 3% + 5dgt)       Protection     6000 C or AC RMS       Resolution     0.01mF to 0.0mF       Basic accuracy     ± 3% + 5dgt)       Protection     6000 L to 60MQ - 6 ranges       Basic accuracy     ± 41.2% + 5dgt)       Protection     6000 L to 60MQ - 6 ranges       Basic accuracy     ± 41.2% + 5dgt)       Protection     6000 L to 60MQ - 6 ranges       Basic accuracy     ± 41.2% + 5dgt)       Protection     6000 L to 60MQ - 6 ranges       Basic accuracy     ± 41.2% + 5dgt)       Protection     6000 L to 60MQ - 6 ranges       Dislaw     Euclosuits with bargraph       General features     10He       Display     LCD with backlit       Out-of-range indication     "0"C' display       Operating temperature     0"C' display       Operating temperature     0"C' dograph       Operating		
Bandwith     4042 to 1kHz       Protection     fuse 600mA input "mA" and fuse 10A input "A"       Ranges     10Hz to 10MHz - 7 ranges       Basic accuracy     ± (1% + 5dgt)       Sensitiv     from 200mV       Protection     600V DC or AC RMS       Capacitance     0.0nF to 0.0mF       Resolution     0.01nF to 0.1mF       Basic accuracy     ± 35% + 5dgt)       Protection     0.00mF to 0.1mF       Basic accuracy     ± 35% + 5dgt)       Protection     600V DC or AC RMS       Resolution     600V DC or AC RMS       Resistance     6000 DC or AC RMS       Ranges     6000 DC or AC RMS       Dasc acuracy     ± 12% + 5dgt)       Protection     600V DC or AC RMS       Continuity     ± 12% + 5dgt)       Protection     600V DC or AC RMS       Continuity     ± 12% + 5dgt)       Protection     600V DC or AC RMS       Continuity     ± 12% + 5dgt)       Protection     600V DC or AC RMS       Continuity     ± 12% + 5dgt)       Protection     600V DC or AC RMS       Continuity     ± 12% + 5dgt)       Display     UD with buzzer (30 ohms)       Display     UD with buzzer (30 ohms)       Out-of-range indication     10* of 10%       Or		
Protection fuse 600mA input "mA" and fuse 10A input "A" Frequency Ranges 10Hz to 10MHz - 7 ranges Basic accuracy 41% + 5dgt) Sensivity from 200mV Protection 600V DC or AC RMS Capacitance Ranges 100Hz to 100mF Resolution 0, 0,1nf to 0,1mF Basic accuracy 43% + 5dgt) Protection 600V DC or AC RMS Resolution 0, 0,0nf to 0,1mF Basic accuracy 43% + 5dgt) Protection 600V DC or AC RMS Resolution 0,00 C or AC RMS Resolution 0,00 C or AC RMS Resolution 400 DC OR AC RMS Resolution 400		
Frequency         Interface           Basic accuracy         4/18 + 5dgt)           Sensivity         from 200mV           Protection         600V DC or AC RMS           Capacitance         0.01F to 100mF           Resolution         0.01F to 0.1mF           Basic accuracy         4.03F + 5dgt)           Protection         0.01nF to 0.1mF           Resolution         0.01nF to 0.1mF           Basic accuracy         4.03F + 5dgt)           Protection         600V DC or AC RMS           Resistance         600V DC or AC RMS           Ranges         600V DC or AC RMS           Basic accuracy         4.12.9F + 5dgt)           Protection         600V DC or AC RMS           Continuity         4.12.9F + 5dgt)           Diade         4.12.9F + 5dgt)           Functions         MIN, MAX, FEL, HOLD           Central features         1.00 with bacgraph           Diale         0.00 counts with bargraph           Measurement rate         3 measurements/s           Out-of-range indication         0.01 display           Polarity indication         The "-" symbol is automatically displayed           Operating temperature         -00° Ct 00°C (without bateries), IR < 70%		
Ranges     10Hz - 7 ranges       Basic accuracy     ±194 + 5dpt)       Sensivity     from 200mV       Protection     600V DC or AC RMS       Ranges     10nF to 100mF       Resolution     0.01nF to 0,1mF       Basic accuracy     ±378 + 5dgt)       Protection     600V DC or AC RMS       Resistance     600V DC or AC RMS       Resistance     600V DC or AC RMS       Resistance     600Q to 60MQ - 6 ranges       Basic accuracy     ±1.2% + 5dgt)       Protection     600V DC or AC RMS       Continuity     ±1.2% + 5dgt       Protection     600V DC or AC RMS       Continuity     ±1.2% + 5dgt       Diode     ✓       Protections     6000 DC or AC RMS       Diode     ✓       Functions     MIN, MAX, REL, HOLD       Ceneral features     CD with backlit       Display     LD with backlit       Out-of-range indication     °U * 10play       Out-of-range indication     °U * 10play       Polarcing temperature     °U * 000° counts with bargraph       Measurement rate     °U * 10play       Operating temperature     °U * 10play       Polarcing temperature     °U * 10play       Storage temperature     -10°C to 60°C without bateries), HR < 70%		
Basic accuracy         ±11% + 5 dgt           Protection         600V DC or AC RMS           Capacitance         600V DC or AC RMS           Ranges         10nF to 100mF           Resolution         0.01nF to 0,1mF           Basic accuracy         ±13% + 5 dgt           Protection         600V DC or AC RMS           Resistance         600V DC or AC RMS           Ranges         6000 DC or AC RMS           Ranges         6000 DC or AC RMS           Ranges         6000 DC or AC RMS           Continuity         ±12,% + 5 dgt           Protection         6000 DC or AC RMS           Continuity         ±12,% + 5 dgt           Protection         6000 DC or AC RMS           Continuity		
Sensitiv     from 200mV       Protection     600V DC or AC RMS       Capacitance     00/In F to 100mF       Ranges     0.0/InF       Basic accuracy     ±13% + 5dgt)       Protection     6000 V DC or AC RMS       Resistance     6000 V DC or AC RMS       Ranges     6000 V DC or AC RMS       Basic accuracy     ±13% + 5dgt)       Protection     6000 V DC or AC RMS       Resistance     6000 V DC or AC RMS       Continuity     ✓, with buzzer (30 ohms)       Diode     ✓       Continuity     ✓, with buzzer (30 ohms)       Diode     ✓       Basic accuracy     LCD with backlit       Display     LCD with backlit       Display     Continuity       Out-of-range indication     "OL" display       Polarity indication     The "-" symbol is automatically displayed       Operating temperature     -00°C to 40°C, HR < 80%		
Protection         600V DC or AC RMS           Capacitance         10nF to 100mF           Ranges         10nF to 100mF           Resolution         0,01nF to 0,1mF           Basic accuracy         ±(3% + 5dgt)           Protection         6000 DC or AC RMS           Resistance         6000 to 60MΩ - 6 ranges           Basic accuracy         ±(1,2% + 5dgt)           Protection         6000 Co rAC RMS           Continuity $\pounds(1,2% + 5dgt)$ Protection         600V DC or AC RMS           Continuity $\psi(1,2% + 5dgt)$ Protection         6000 Co co RMS           Continuity $\psi(1,2% + 5dgt)$ Protection         6000 Co or AC RMS           Continuity $\psi(1,2% + 5dgt)$ Protection         6000 counts with buzzer (30 ohms)           Diode $\psi(1,2% + 5dgt)$ Functions         MIN, MAX, REL, HOLD           Ceneral features         0.000 counts with bargraph           Measurement rate         3 measurements/s           Out-of-range indication         The "-" symbol is automatically displayed           Operating temperature         -00° C to 60°C (without batteries), HR < 70%		
Capacitance         10nF to 100mF           Resolution         0,01nF to 0,1mF           Basic accuracy         ±(3% + 5dgt)           Protection         6000 th 0000 - 6 ranges           Resistance         6000 th 0000 - 6 ranges           Basic accuracy         ±(1,2% + 5dgt)           Protection         6000 th 0000 - 6 ranges           Basic accuracy         ±(1,2% + 5dgt)           Protection         6000 th 02 or AC RMS           Continuity         ✓           Ontinuity         ✓           Functions         MIN, MAX, REL, HOLD           General features         ✓           Display         LCD with backlit           Measurement rate         3 measurements/s           Out-of-range indication         °C' dot?C, HR < 80%		
Ranges10nF to 100mFResolution0,01nF to 0,1mFBasic accuracy±13% + 5dgtProtection600V DC or AC RMSResistance6000 DC or AC RMSRanges6000 DC or AC RMSBasic accuracy±11,2% + 5dgtProtection6000 DC or AC RMSContinuity✓, with buzzer (30 ohms)Diode✓FunctionsMIN, MAX, REL, HOLDCeneral featuresDisplayLCD with backlitOut-of-range indicationThe*-* symbol is automatically displayedOperating temperature-0°C to 40°C, HR < 80%		600V DC OF AC RMS
Resolution         0,01nF to 0,1mF           Basic accuracy         ±(3% + 5dgt)           Protection         600V DC or AC RMS           Resistance	•	
Basic accuracy         ±(3% + 5dgt)           Protection         6000 to 60MΩ - 6 ranges           Resistance         6000 to 60MΩ - 6 ranges           Basic accuracy         ±(1.2% + 5dgt)           Protection         6000 to 60MΩ - 6 ranges           Basic accuracy         ±(1.2% + 5dgt)           Protection         6000 to 00 rAc RMS           Continuity         ✓           Diode         ✓           Functions         MIN, MAX, REL, HOLD           Ceneral features            Display         LCD with backlit           Out-of-range indication         °OL* display           Polarity indication         The "-* symbol is automatically displayed           Operating temperature         -0°C* to 40°C, IR < 80%		
Protection       600V DC or AC RMS         Resistance       6000 to 60MΩ - 6 ranges         Basic accuracy       ±(1,2% + 5dqt)         Protection       600V DC or AC RMS         Continuity       ✓         Diode       ✓         Functions       MIN, MAX, REL, HOLD         Ceneral features       ✓         Display       LCD with backlit         Measurement rate       3 measurements/s         Out-of-range indication       ~0°C to 40°C, HR < 80%		
Resistance         6000 to 60M0 - 6 ranges           Basic accuracy         ±(1,2% + 5dgt)           Protection         600V DC or AC RMS           Continuity         ✓, with buzzer (30 ohms)           Diode         ✓           Functions         MIN, MAX, REL, HOLD           Ceneral features         ✓           Display         CD with backlit           Out-or-range indication         °('' display           Polarity indication         °('' display           Out-of-range indication         °('' display           Potection         °('' display           Potection         °('' display           Potection         °('' display           Potection         °('' display displayed)           Operating temperature         °('' display displayed)           Operating temperature         °('' display displayed)           Protection         fluse 600mA input "mA" and fuse 10A input "A"           Safety         600' C without batteries, HR < 70%		
Ranges         600Ω to 60MΩ - 6 ranges           Basic accuracy         ±(1,2% + 5dgt)           Protection         600V DC or AC RMS           Continuity         ✓, with buzzer (30 ohms)           Diode         ✓           Functions         MiN, MAX, REL, HOLD           Ceneral features            Display         LCD with backlit           Measurement rate         3 measurements/s           Out-of-range indication         "OL" display           Polarity indication         The "-" symbol is automatically displayed           Operating temperature         -00° C to 40°C, HR < 80%		600V DC or AC RMS
Basic accuracy       ±1,2% + 5dgt)         Protection       600V DC or AC RMS         Continuity       ✓, with buzzer (30 ohms)         Diode       ✓         Functions       MIN, MAX, REL, HOLD         Ceneral features       ✓         Display       LCD with backlit         Measurement rate       3 measurements/s         Out-of-range indication       The "-" symbol is automatically displayd         Operating temperature       -10°C to 60°C (without batteries), HR < 70%		
Protection       600V DC or AC RMS         Continuity       ✓, with buzzer (30 ohms)         Diode       ✓         Functions       MIN, MAX, REL, HOLD         General features       ICD with backlit         Display       6000 counts with bargraph         Measurement rate       3 measurements/s         Out-of-range indication       "Ot" display         Polarity indication       The *-* symbol is automatically displayed         Operating temperature       0°C to 40°C, HR < 80%		
Continuity         ✓, with buzzer (30 ohms)           Diode         ✓           Functions         MIN, MAX, REL, HOLD           General features         MIN, MAX, REL, HOLD           Display         LCD with backlit           Measurement rate         3 measurements/s           Out-of-range indication         °O'' display           Polarity indication         The *-* symbol is automatically displayed           Operating temperature         -10°C to 60°C (without batteries), HR < 70%		
Diode       ✓         Functions       MIN, MAX, REL, HOLD         General features       LCD with backlit         Display       6000 counts with bargraph         Measurement rate       3 measurements/s         Out-of-range indication       "01" display         Polarity indication       The "-" symbol is automatically displayed         Operating temperature       0°C to 40°C, HR < 80%		
Functions         MIN, MAX, REL, HOLD           Ceneral features         LCD with backlit           Display         6000 counts with bargraph           Measurement rate         3 measurements/s           Out-of-range indication         "OL" display           Polarity indication         0°C to 40°C, HR < 80%		
Ceneral features           Display         LCD with backlit           Measurement rate         6000 counts with bargraph           Out-of-range indication         "0L" display           Polarity indication         "0L" display           Operating temperature         0°C to 40°C, HR < 80%		
DisplayLCD with backlitMeasurement rate6000 counts with bargraphOut-of-range indication"OL" displayPolarity indicationThe "-" symbol is automatically displayedOperating temperature0°C to 40°C, HR < 80%	Functions	MIN, MAX, REL, HOLD
Display       6000 counts with bargraph         Measurement rate       3 measurements/s         Out-of-range indication       "OL" display         Polarity indication       The "-" symbol is automatically displayed         Operating temperature       0°C to 40°C, HR < 80%	General features	
Display       6000 counts with bargraph         Measurement rate       3 measurements/s         Out-of-range indication       "OL" display         Polarity indication       The "-" symbol is automatically displayed         Operating temperature       0°C to 40°C, HR < 80%		LCD with backlit
Measurement rate       3 measurements/s         Out-of-range indication       "OL" display         Polarity indication       The "-" symbol is automatically displayed         Operating temperature       0°C to 40°C, HR < 80%	Display —	
Out-of-range indication"OL" displayPolarity indicationThe "-" symbol is automatically displayedOperating temperature0°C to 40°C, HR < 80%	Measurement rate	
Polarity indication         The "-" symbol is automatically displayed           Operating temperature         0°C to 40°C, HR < 80%		
Operating temperature         0°C to 40°C, HR < 80%           Storage temperature         -10°C to 60°C (without batteries), HR < 70%		
Storage temperature       -10°C to 60°C (without batteries), HR < 70%		
Protection       fuse 600mA input "mA" and fuse 10A input "A"         Safety       600V CAT III         Standards       EN: 61326         Standards       EN: 61010-1         EN: 61010-02-032       EN: 61010-02-033         Pollution degree       2         Power supply       2 x AAA 1.5V batteries         Automatic switch-off       after about 10mn         Low battery indication       The "battery" symbol is displayed         Dimension       166×78×64mm		
Safety       600V CAT III         EN: 61326         Standards         EN: 61010-1         EN: 61010-2032         EN: 61010-02-032         EN: 61010-02-033         Pollution degree         Power supply         Automatic switch-off         Low battery indication         Dimension         166×78×64mm		
EN: 61326         EN: 61010-1         EN: 61010-02-032         EN: 61010-02-033         Pollution degree         Power supply         Automatic switch-off         Low battery indication         Dimension         166×78×64mm		
Standards       EN: 61010-1         EN: 61010-02-032         EN: 61010-02-033         Pollution degree       2         Power supply       2 x AAA 1.5V batteries         Automatic switch-off       after about 10mn         Low battery indication       The "battery" symbol is displayed         Dimension       166×78×64mm	Salely	
Standards       EN: 61010-02-032         EN: 61010-02-033       EN: 61010-02-033         Pollution degree       2         Power supply       2 x AAA 1.5V batteries         Automatic switch-off       after about 10mn         Low battery indication       The "battery" symbol is displayed         Dimension       166×78×64mm		
Eh: 610/10-02-052         Power supply         Automatic switch-off         Low battery indication         Dimension         166×78×64mm	Standards	
Pollution degree     2       Power supply     2 x AAA 1.5V batteries       Automatic switch-off     after about 10mn       Low battery indication     The "battery" symbol is displayed       Dimension     166×78×64mm		
Power supply     2 x AAA 1.5V batteries       Automatic switch-off     after about 10mn       Low battery indication     The "battery" symbol is displayed       Dimension     166×78×64mm		EN: 61010-02-033
Automatic switch-off     after about 10mn       Low battery indication     The "battery" symbol is displayed       Dimension     166×78×64mm		2
Low battery indication         The "battery" symbol is displayed           Dimension         166×78×64mm		
Dimension 166×78×64mm		
Weight 268g		
	Weight	268g

Supplied with : Instruction manual, Test leads (4mm), 2 x 1.5V AAA batteries, Carrying case.



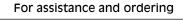
Carrying case supplied as standard



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FT7212 EN 00 - Specifications can be updated without notice

