



# MULTIMETERS



**EM730**



**EM830**



**EM930**

DISPLAY TYPE	BACKLIT LCD	COLOUR LCD	COLOUR LCD DUAL DISPLAY
TRUE RMS	Yes	Yes	Yes
AC VOLTAGE	4V-40V-400V-1000V	4V-40V-400V-1000V	500mV-5V-50V-500V-1000V
DC VOLTAGE	400mV-4V-40V-400V-1000V	400mV-4V-40V-400V-1000V	50mV-500mV-5V-50V-500V-1000V
AC/DC CURRENT PROBE	-	-	30A-400A-1500A
AC CURRENT	400µA-4000µA-40mA-400mA-4A-10A	400µA-4000µA-40mA-400mA-4A-20A	50mA-500mA-10A
DC CURRENT	400µA-4000µA-40mA-400mA-4A-10A	400µA-4000µA-40mA-400mA-4A-20A	50mA-500mA-10A
RESISTANCE	400Ω-4kΩ-40kΩ-400kΩ-4MΩ-40MΩ	400Ω-4kΩ-40kΩ-400kΩ-4MΩ-40MΩ	50Ω-500Ω-5kΩ-50kΩ-500kΩ-5MΩ-50MΩ
FREQUENCY	9.999Hz-99.99Hz-999.9Hz-9.999kHz-99.99kHz-999.9kHz-9.999MHz	200Hz-2000Hz-20kHz-200kHz	50Hz-500Hz-5kHz-50kHz-500kHz
RPM IP	-	30 - 9,000RPM	120 -20,000RPM (4-stroke)/ 60 - 10,000RPM (2-stroke)
RPM IG	-	60 - 12,000RPM	60 -20,000RPM (4-stroke)/ 30 -10,000RPM (2-stroke)
DUTY CYCLE	-	0.0% - 99.9%	0.0% - 100.0%
PULSE WIDTH	-	0.1ms - 1999.9ms	0.50ms -250.00ms (Multi-point/ Single-point injection)
DWELL ANGLE	-	0.0° - 356.4°	0.0° - 356.4°
TEMPERATURE	-4°F to 1832°F (-20°C - 1000°C)	-40°F to +2498°F (-40°C -1370°C)	-58°F to 2372°F (-50°C - 1300°C)
CAPACITANCE	40nF-400nF-4µF-40µF-400µF-4000µF	1µF-10µF-100µF-1000µF	5nF-50nF-500nF-5µF-50µF-500µF-2500µF
MAX/MIN AVG RECORDING	-	Yes	Yes
BACKLIGHT LCD	Yes (Positive LCD, 80mm*54mm)	Yes (Negative LCD, 80mm*54mm)	Yes (Negative LCD,80mm*54mm), color LCD
BLUETOOTH	-	-	Yes
USB	-	-	Yes
SAFETY STANDARD	CAT III 1000V/CATIV 600V	CAT III 1000V/CATIV 600V	CAT III 1000V/CATIV 600V
3 YEAR REPLACEMENT WARRANTY	Yes	Yes	Yes



# CLAMP METERS



**EM130**



**EM140**

DISPLAY TYPE	BACKLIT LCD	BACKLIT LCD
TRUE RMS	Yes	Yes
AC VOLTAGE	6V-60V-600V	6V-60V-600V
DC VOLTAGE	600mV-6V-60V-600V	600mV-6V-60V-600V
MAX. MEASURABLE CONDUCTOR	Ø18mm	Ø32mm
AC CURRENT	6A-60A-100A (Resolution:0.001A)	60A-600A (Resolution:0.01A)
DC CURRENT	6A-60A-100A (Resolution:0.001A)	60A-600A (Resolution:0.01A)
RESISTANCE	600Ω-6kΩ-60kΩ-600kΩ-6MΩ-60MΩ	600Ω-6kΩ-60kΩ-600kΩ-6MΩ-60MΩ
FREQUENCY	9.999Hz-99.99Hz-999.9Hz-9.999kHz-99.99kHz-999.9kHz-9.999MHz	9.999Hz-99.99Hz-999.9Hz-9.999kHz-99.99kHz-999.9kHz-9.999MHz
RPM IP	-	-
RPM IG	-	-
DUTY CYCLE	-	5 - 95%
PULSE WIDTH	-	-
DWELL ANGLE	-	-
TEMPERATURE	-4°F to 1832°F (-20°C -1000°C)	-4°F to 1832°F (-20°C -1000°C)
CAPACITANCE	6nF-60nF-600nF-6μF-60μF-600μF-6mF-60mF	6nF-60nF-600nF-6μF-60μF-600μF-6mF-60mF
MAX/MIN AVG RECORDING	-	-
BACKLIGHT LCD	Yes (Positive LCD)	Yes (Positive LCD)
BLUETOOTH	-	-
USB	-	-
SAFETY STANDARD	CAT III 600V	CAT III 600V
3 YEAR REPLACEMENT WARRANTY	Yes	Yes