

MEGADYNE™ Electrosurgical Generator

Quick Start Guide

Power up/down buttons

In all coagulation modes and in PURE and BLEND cut modes, arrows adjust power in 1-watt increments up to 40 watts and in increments of 5 watts thereafter. In the GEM cut mode, arrows switch mode from GEM High (H) to GEM Low (L). In bipolar modes, arrows adjust power in 1-watt increments up to 80 watts.

Bipolar current meter

Provides a visual indication of current flow. As tissue becomes desiccated and dries, current flow is diminished, as illustrated by light bars on current monitor.

Recall button

Push after startup to recall last mode and power setting used. During use, toggle between modes to maintain the last power setting used.

Auto bipolar button

Activates AUTO bipolar mode, removing the need for a footswitch. Press to select a 1-second delay (LONG), 0.5-second delay (SHORT) or no delay (ON) prior to the onset of energy delivery.

Patient return electrode alarm

Lights green when patient return electrode is connected and CQM circuit is complete. Lights red, accompanied by an audible alarm, when circuit is broken or electrode is disconnected.

Bipolar current meter tone button

Press to activate or deactivate bipolar current meter tone. During use, starts off as a rapid tone then reduces to a slower, metered tone as current flow is diminished.



Patient return electrode receptacle

Accepts both single plate and split plate return electrodes. Ethicon recommends the use of a MEGADYNE™ MEGA SOFT™ Reusable Patient Return Electrode.

Monopolar receptacles

Accept two handswitching accessories or one footswitching and one handswitching accessory. Press "CUT" or "COAG" button on pencil or foot pedal to activate attached instrument.*

Bipolar receptacle

Accepts a footswitching (2-pin) or handswitching (3-pin) accessory. Press footswitch or close tips of bipolar forceps (when using auto bipolar) to activate attached instrument.*

On/Off power switch

Press to turn on generator. Switch will illuminate green. Once startup and self-diagnostic check are complete, dashed lines appear in power setting windows.

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The MEGADYNE™ Electrosurgical Generator provides multiple cut, coagulation, bipolar modes and power settings. The ETHICON MEGADYNE™ Electrosurgical generator is designed to optimize energy delivery to minimize tissue damage through proprietary software and algorithms¹⁻⁴

Cutting

PURE CUT MODE

Provides a standard cutting effect.⁵

BLEND MODE

Provides a combination of cutting and coagulation.⁵

GEM (Geometric Electron Modulation)

The Geometric Electron Modulation (GEM) mode of the ETHICON MEGADYNE™ Electrosurgical Generator automatically controls the output power of the generator to provide a consistent cutting effect.⁵

Coagulation

COAG 1 MODE

Is designed to allow the active electrode to efficiently move through tissue for coagulation with dissection.⁵

COAG 2 MODE

Delivers a more gradual onset of energy that results in a mild delivery of coagulation with dissection.⁵

FULGURATION MODE

Is designed to provide hemostasis in a broader area with less depth of tissue damage when compared to desiccation.⁵

SOFT COAG MODE

Is designed to provide coagulation and desiccation at a slow rate with deep thermal penetration.⁵

Bipolar

MICRO BIPOLAR MODE

Is designed to deliver consistent power to provide a tissue effect for all standard bipolar applications.⁵

MACRO BIPOLAR MODE

Delivers a rapid onset of power and higher voltage power output compared to Micro Bipolar.⁵

AUTO

Is designed to remove the need for a bipolar footswitch.⁵

Power settings

Settings will vary according to surgeons' preferences. To increase power intensity, increase the power setting. To decrease the intensity of power, lower the power setting. If a proper setting is not known, set the generator at a low setting and increase power until the desired effect is obtained.

Error codes

To clear an error, turn the MEGADYNE™ Electrosurgical Generator off, then on, to restart the machine and clear the error. If the error does not clear, record the error code displayed and contact your Ethicon Sales Representative.

Cleaning the MEGADYNE™ Electrosurgical Generator

Disconnect the power cord from the wall outlet prior to cleaning the generator. Use a mild detergent or disinfectant and a damp cloth to clean the generator. Do not use abrasive, corrosive or caustic cleaning or disinfectant agents that could scratch the front panel or damage the generator. Do not allow fluids to drain inside the generator.

For more information, visit: jnmedicaldevices.com

*When used in combination with a MEGADYNE™ ACE/GEM electrode

1. Ethicon Megadyne Electrosurgical Generator (MEGEN1) Technical Design Memo, February 2020, Data on File (132814-200218) 2. GEM Technical Monograph, October 2017, Data on File (132814-200218) 3. Ethicon Megadyne ESU Thermal Effects on Tissue, December 2018, Data on File (132814-200218) 4. Golden Gate Marketing Claims Memo, June 2019, Data on File (132814-200218) 5. As Per Instructions For Use (133027-200220, 126158-191023, 133030-200220, 136500-200408, 133034-200220, 136502-200408, 136505-200408, 133035-200220, 136512-200408, 136506-200408)