However, I strongly advise against running this exact code on a live account right now.

Here is the candid reality: I built EA_Sema_Optimizer specifically as a lightweight, lightning-fast engine for the Strategy Tester. To make it run through thousands of combinations quickly, I stripped out the "safety gear" required for live market conditions.

If you put this current version on a live chart, you will run into several dangerous issues:
1. No "Magic Number" (Trade Interference)

In live trading, an EA needs a unique ID called a "Magic Number" to recognize its own trades. Currently, this EA just looks at PositionsTotal(). If you manually open a trade on EURUSD, or if you have another robot running, this EA might accidentally close your manual trade because it can't tell the difference between its own trades and yours.
2. No Error Handling or Retries

The Strategy Tester is a perfect, mathematically sterile environment. Live markets are messy. Brokers have slippage, requotes, spread widening, and server disconnects.

If your broker rejects the trade.Buy() request because the price moved too fast, this current code will just silently fail and miss the trade.

It doesn't check if your Stop Loss is placed too close to the current price (violating the broker's "StopLevel" rules), which would also cause the trade to fail.

3. Missing Slippage Protection

When the EA sends an order, it currently accepts whatever price the broker gives it. In live markets during news events, this could result in terrible entry prices. A live EA needs a "Maximum Slippage" parameter.