

# LiquidityGauge

When an LP token is whitelisted on `LendingLedger`, a `LiquidityGauge` wrapper is automatically created. This simple wrapper calls `sync_ledger` in the `_afterTokenTransfer` hook to ensure eligible LP positions are continuously tracked by the protocol.

## Depositing

To deposit LP tokens into a wrapper, call the `depositUnderlying(uint256 _amount)` method. The wrapper must be approved to spend the underlying token.

ethers.js

```
...  
  
Copy await LiquidityGauge.depositUnderlying(1000000000000000000) // Deposit 10 LP tokens
```

foundry

```
...  
  
Copy cast send --ledger 0x... "depositUnderlying(uint256)" 1000000000000000000
```

## Withdrawing

To withdraw LP tokens from a wrapper, call the `withdrawUnderlying(uint256 _amount)` method.

ethers.js

```
...  
  
Copy await LiquidityGauge.withdrawUnderlying(1000000000000000000) // Withdraw 10 LP tokens
```

foundry

```
...  
  
Copy cast send --ledger 0x... "withdrawUnderlying(uint256)" 1000000000000000000
```

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