

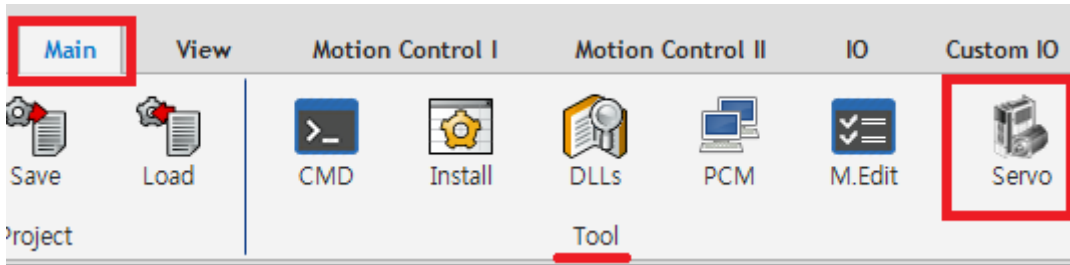
Case 1 1

, , , , polarity

× EtherCAT

Case 1

1 ComilDE Main Servo



2 () ReadOne

The 'Servo Tune' window displays a tree view on the left with 'Axis 0 (PANASONIC_A)' selected. The main area contains a 'Category' dropdown and a set of control buttons including 'Load All', 'Save All', 'Compare To File', 'Read All', 'Write 1:N', 'Write N:N', 'EEP All', 'Load One', 'Save One', 'Compare To Axis', 'Read One', 'Write One', and 'EEP One'. The 'Read One' button is highlighted with a red box. Below these buttons is a table of servo parameters.

| Item | Name | Minimum | Maximum | Defalut | Servo | Value | Unit |
|------|------------------------|---------|------------|---------|-------|-------|-----------|
| 0 | 제조사 사용 | 0 | 1 | 1 | | | --- |
| 1 | 제어 모드 설정 | 0 | 6 | 0 | | | --- |
| 2 | 실시간 오토튜닝 설정 | 0 | 6 | 1 | | | --- |
| 3 | 실시간 오토튜닝 기계 강성 설정 | 0 | 31 | 13 | | | --- |
| 4 | 관성비 | 0 | 10000 | 250 | | | 1% |
| 8 | 제조사 사용 | 0 | 1048576 | 0 | | | --- |
| 9 | 제조사 사용 | 0 | 1073741824 | 1 | | | --- |
| 10 | 제조사 사용 | 1 | 1073741824 | 1 | | | --- |
| 11 | 지원 없음(모터 1회전당 출력 펄스 수) | 1 | 262144 | 2500 | | | 1 Pulse/r |
| 12 | 지원 없음(펄스 출력 논리 반전) | 0 | 3 | 0 | | | --- |
| 13 | 제 1 토크 한계 | 0 | 500 | 500 | | | 1% |
| 14 | 위치 편차 과대 설정 | 0 | 134217728 | 100000 | | | 1 Pulse/r |
| 15 | 애플루트 인코더 설정 | 0 | 2 | 1 | | | --- |
| 16 | 회생 저항 외장 설정 | 0 | 3 | 3 | | | --- |
| 17 | 외장 회생 저항 부하를 선택 | 0 | 4 | 0 | | | --- |
| 0 | 제 1 위치 루프 게인 | 0 | 30000 | 480 | | | 0,1 /s |
| 1 | 제 1 속도 루프 게인 | 1 | 32767 | 270 | | | 0,1 Hz |
| 2 | 제 1 속도 루프 적분 시정수 | 1 | 10000 | 210 | | | 0,1 ms |
| 3 | 제 1 속도 검출 필터 | 0 | 5 | 0 | | | --- |

3 Polarity ↓

| Item | Name | Minimum | Maximum | Defalut | Servo | Value | Unit |
|------|-----------------------------|---------|------------|-----------|-----------|-----------|------------|
| 43 | Polarity | 0 | 255 | 0 | 0 | 0 | --- |
| 44 | Max profile velocity | 0 | 4294967295 | 104857600 | 104857600 | 104857600 | 1 unit/s |
| 45 | Max motor speed | 0 | 4294967295 | 6000 | 5000 | 5000 | 1 r/min |
| 46 | Profile velocity | 0 | 4294967295 | 0 | 0 | 0 | 1 unit/s |
| 47 | End velocity | 0 | 4294967295 | 0 | 0 | 0 | 1 unit/s |
| 48 | Profile acceleration | 0 | 4294967295 | 1000000 | 1000000 | 1000000 | 1 unit/... |
| 49 | Profile deceleration | 0 | 4294967295 | 1000000 | 1000000 | 1000000 | 1 unit/... |
| 50 | Quick stop deceleration | 0 | 4294967295 | 1000000 | 1000000 | 1000000 | 1 unit/... |
| 51 | Motion profile type | -32768 | 32767 | 0 | 983040 | 983040 | --- |
| 52 | Torque slope | 0 | 4294967295 | 1000 | 1000 | 1000 | 0,1 %/s |
| 53 | Torque profile type | -32768 | 32767 | 0 | 0 | 0 | --- |
| 54 | Highest sub-index supported | 2 | 2 | 2 | 2 | 2 | --- |
| 55 | Encoder increments | 1 | 4294967295 | 1048576 | 1048576 | 1048576 | (-)/(pu... |
| 56 | Motor revolutions | 1 | 4294967295 | 1 | 1 | 1 | (nm/p)... |
| 60 | Number of entries | 2 | 2 | 2 | 2 | 2 | --- |
| 61 | Motor revolutions | 1 | 4294967295 | 1 | 1 | 1 | (-)/(r(... |
| 62 | Shaft revolutions | 1 | 4294967295 | 1 | 1 | 1 | (-)/(r(... |
| 63 | Highest sub-index supported | 2 | 2 | 2 | 2 | 2 | --- |
| 64 | Feed | 1 | 4294967295 | 1048576 | 1048576 | 1048576 | unit |

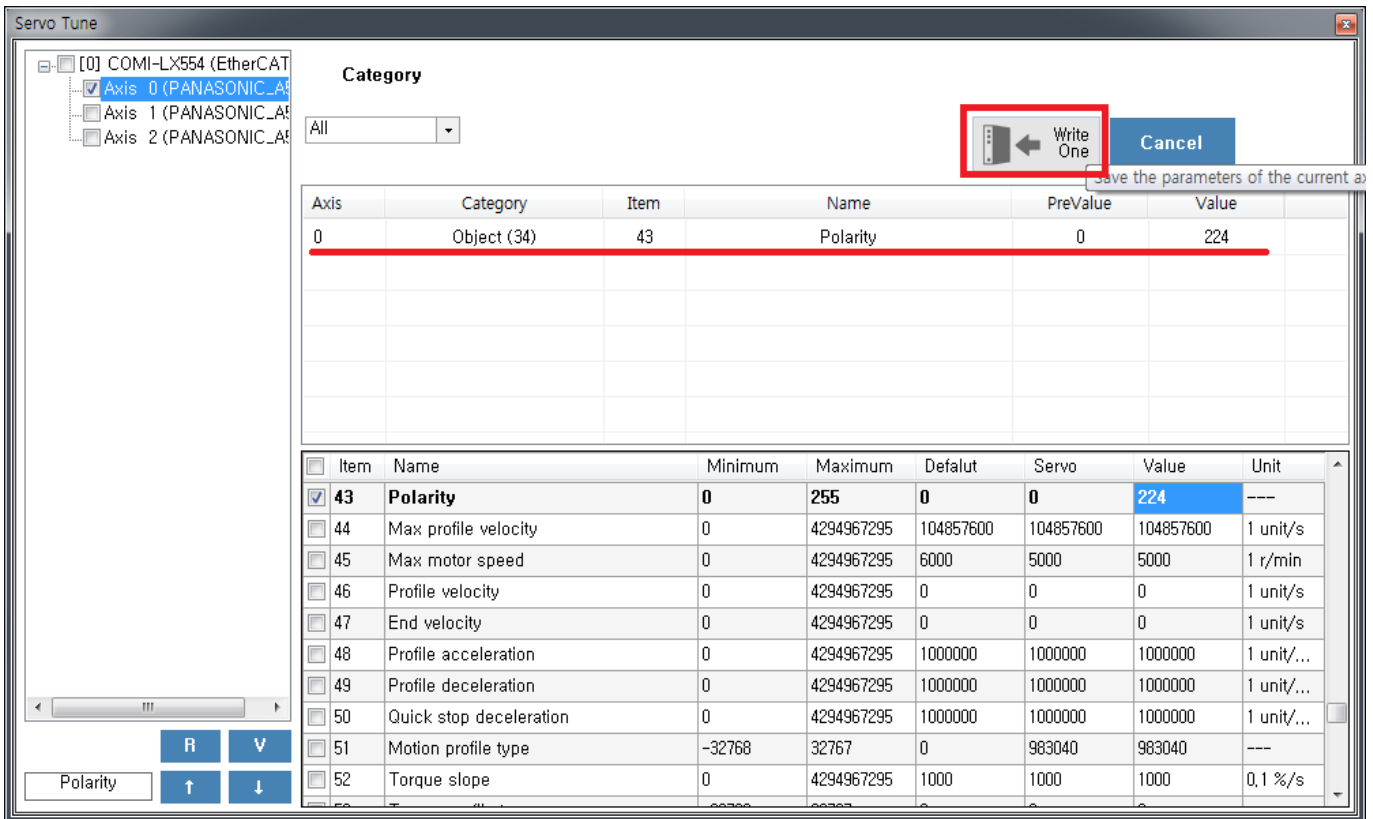
4 Value

| | | | |
|-----|---|---|--|
| | | | |
| 0 | , | , | |
| 224 | , | , | |
| | | | |

5 WriteOne



6 WriteOne



7 EepRom

| Item | Name | Minimum | Maximum | Default | Servo | Value | Unit |
|------|-----------------------------|---------|------------|-----------|-----------|-----------|------------|
| 43 | Polarity | 0 | 255 | 0 | 224 | 224 | --- |
| 44 | Max profile velocity | 0 | 4294967295 | 104857600 | 104857600 | 104857600 | 1 unit/s |
| 45 | Max motor speed | 0 | 4294967295 | 6000 | 5000 | 5000 | 1 r/min |
| 46 | Profile velocity | 0 | 4294967295 | 0 | 0 | 0 | 1 unit/s |
| 47 | End velocity | 0 | 4294967295 | 0 | 0 | 0 | 1 unit/s |
| 48 | Profile acceleration | 0 | 4294967295 | 1000000 | 1000000 | 1000000 | 1 unit/... |
| 49 | Profile deceleration | 0 | 4294967295 | 1000000 | 1000000 | 1000000 | 1 unit/... |
| 50 | Quick stop deceleration | 0 | 4294967295 | 1000000 | 1000000 | 1000000 | 1 unit/... |
| 51 | Motion profile type | -32768 | 32767 | 0 | 983040 | 983040 | --- |
| 52 | Torque slope | 0 | 4294967295 | 1000 | 1000 | 1000 | 0,1 %/s |
| 53 | Torque profile type | -32768 | 32767 | 0 | 0 | 0 | --- |
| 54 | Highest sub-index supported | 2 | 2 | 2 | 2 | 2 | --- |
| 55 | Encoder increments | 1 | 4294967295 | 1048576 | 1048576 | 1048576 | (-)/(pu... |
| 56 | Motor revolutions | 1 | 4294967295 | 1 | 1 | 1 | (nm/p)... |
| 60 | Number of entries | 2 | 2 | 2 | 2 | 2 | --- |
| 61 | Motor revolutions | 1 | 4294967295 | 1 | 1 | 1 | (-)/(r(... |
| 62 | Shaft revolutions | 1 | 4294967295 | 1 | 1 | 1 | (-)/(r(... |
| 63 | Highest sub-index supported | 2 | 2 | 2 | 2 | 2 | --- |
| 64 | Feed | 1 | 4294967295 | 1048576 | 1048576 | 1048576 | unit |

8 Log

| Time | Channel | Code | Command | Info |
|--------------|------------|------|---------------|-----------------------------|
| 16:32:00,425 | Servo Tune | 100 | StateComplete | Param-loading complete |
| 16:34:12,572 | Servo Tune | 100 | ServoParamSet | Param-Writing(1:1) Complete |
| 16:34:42,127 | Servo Tune | 100 | EepOne | Write Complete |

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