

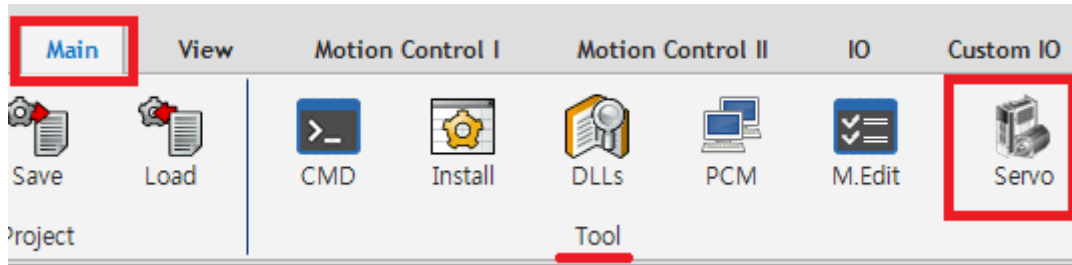
**Case 1** ..... 1

, , , , polarity

× EtherCAT

# Case 1

1 ComilDE Main Servo



2 ( ) ReadOne

The screenshot shows the 'Servo Tune' window. On the left, a tree view shows 'Axis 0 (PANASONIC\_A)' selected and highlighted with a red box. In the top right, the 'ReadOne' button is highlighted with a red box. Below the toolbar is a table of parameters.

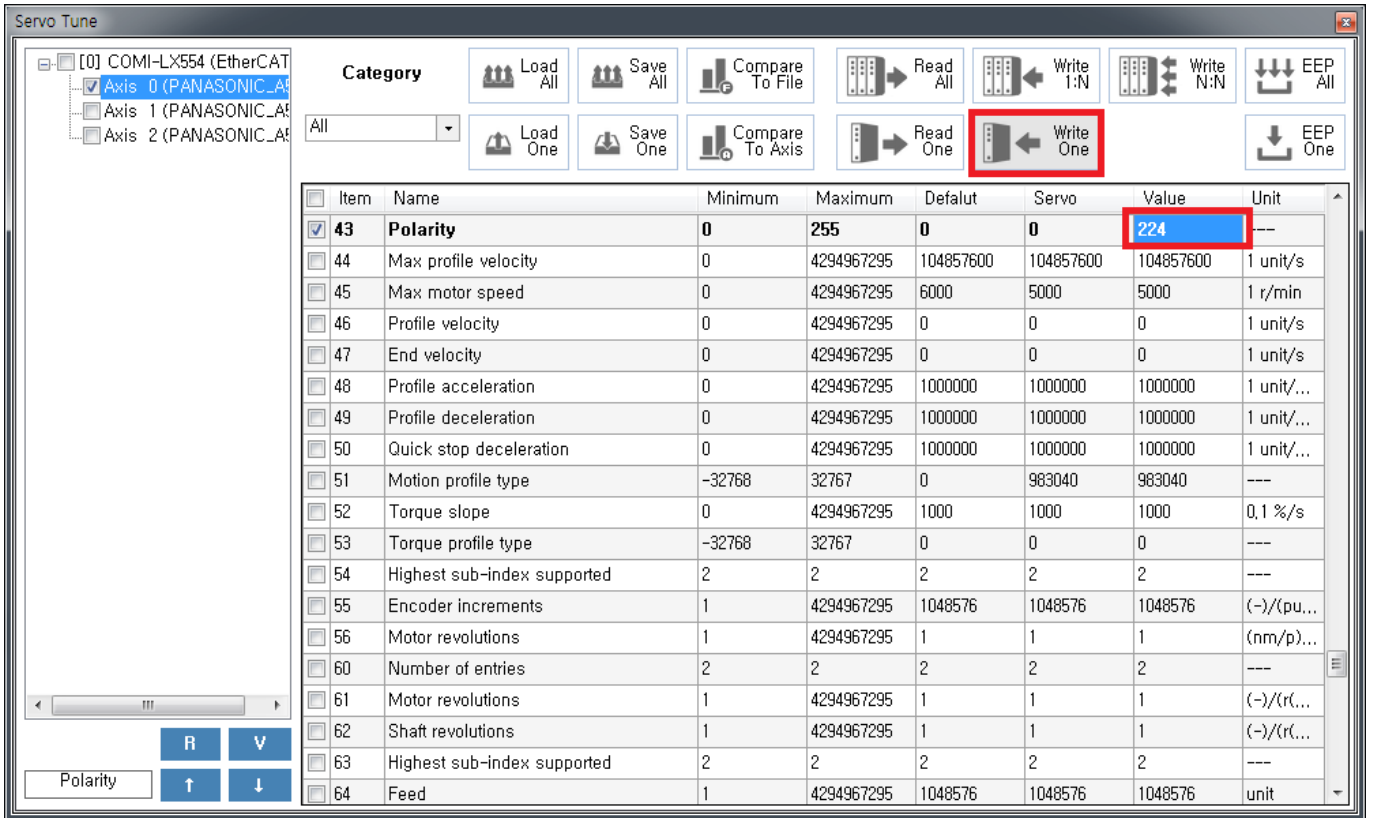
| Item | Name                   | Minimum | Maximum    | Defalut | Servo | Value | Unit      |
|------|------------------------|---------|------------|---------|-------|-------|-----------|
| 0    | 제조사 사용                 | 0       | 1          | 1       |       |       | ---       |
| 1    | 제어 모드 설정               | 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   | 앱솔루트 인코더 설정            | 0       | 2          | 1       |       |       | ---       |
| 16   | 회생 저항 외장 설정            | 0       | 3          | 3       |       |       | ---       |
| 17   | 외장 회생 저항 부하율 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 ↓

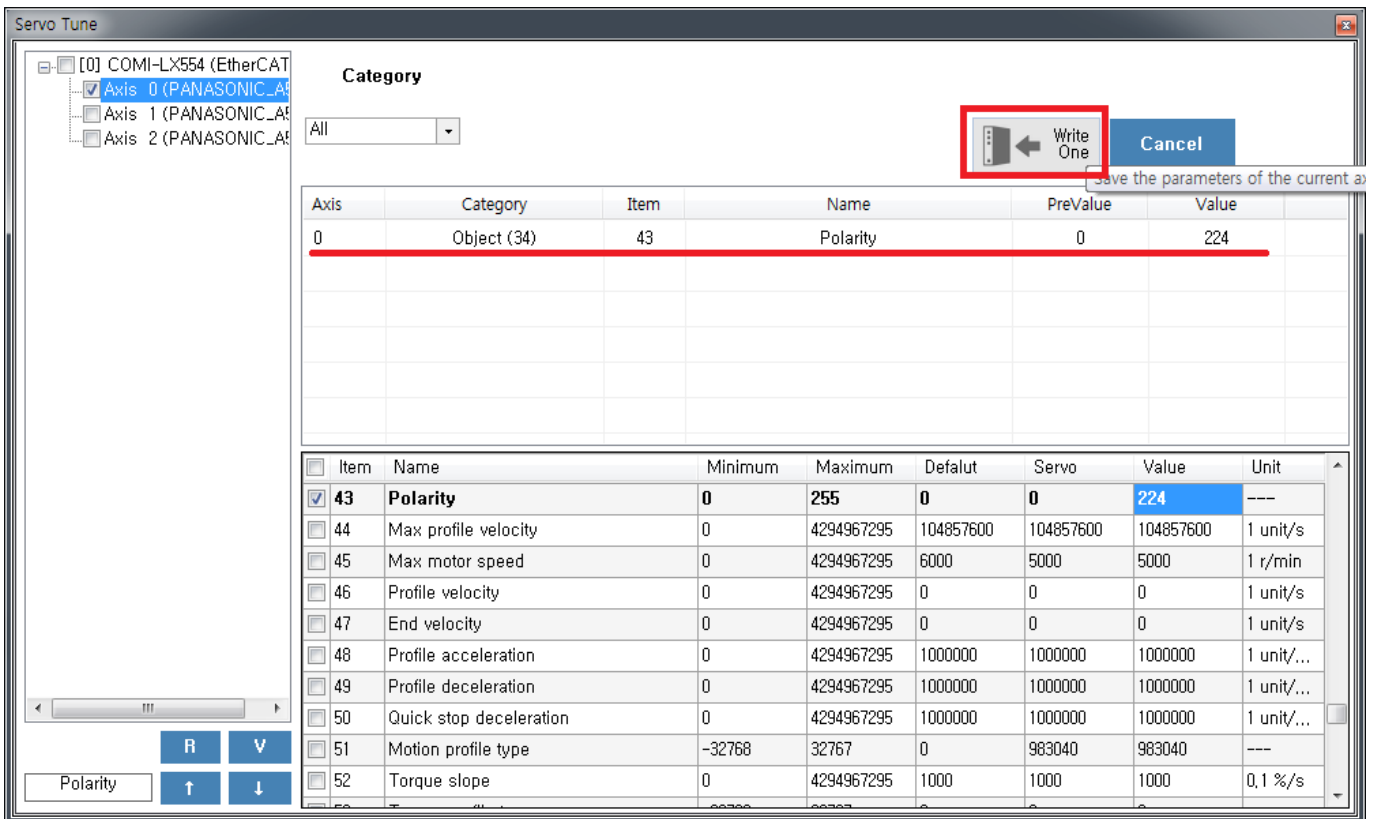
**4 Value**

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

**5 WriteOne**



## 6 WriteOne



## 7 EepRom

| Item | Name                        | Minimum | Maximum    | Defalut   | 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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