# User's Manual

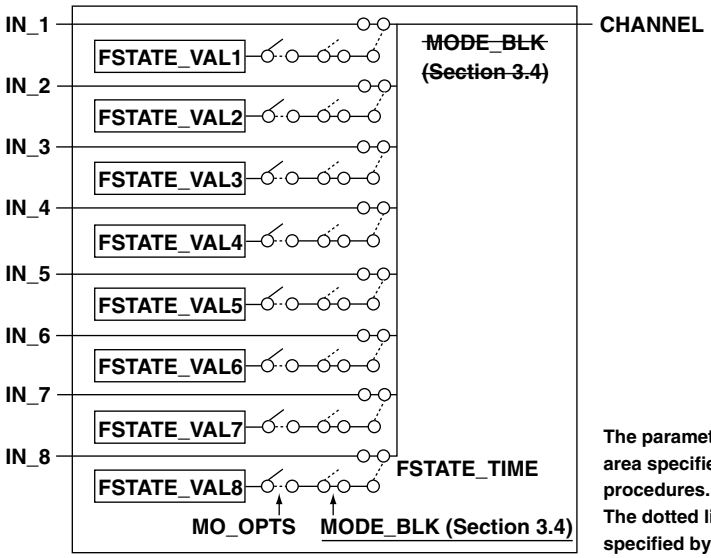
## Model DX100/DX200/MV100/MV200 Fieldbus Communcation Interface

## Notice of Alterations

Please note the following alterations to the IM04L02A01-18E. Changes are underlined. Deletions are crossed out.

**Page 3-16 "Structure of MAO Function Block"**

**MAO function block parameters**




**The parameters in the framed area specifies the data process procedures.**
**The dotted lines denote options specified by the parameters .**

**Page 3-18 "Output When in Fault State"**

When any of IN-1 to IN-8 fall into Fault State while the block mode is "Auto," you can have a specified value be passed to the communication input data of the DX/MV.

**Page 3-31 "• First Unpolled Node Id"**

Indicates the first address ····· does not use. Set an address from 20 to 247 (14 to f7 in hexadecimal notation).

**Page 5-4 "OUT (AI) Status and Corrective Actions"**

| Quality | Sub status | Limit | Cause | Corrective Action/Reference Section |
|---|---|---|---|---|
| Bad | Non-specific | Not limited | The connected channel is not correct. | Check AI_MAP value (section 3.5), or see chapters 5 and 11 of the DX/MV's User's Manual. |
| | | | The connected channel is skipped. | See chapter 5 of the DX/MV's User's Manual. |
| ~~Bad~~ | ~~Configuration Error~~ | ~~Not limited~~ | ~~The connected ··· not correct.~~ | ~~Check AI_MAP value ····· User's Manual.~~ |
| | | | ~~The connected ····· skipped.~~ | ~~See chapter 5 of the DX/MV's User's Manual.~~ |
| Bad | Device Failure | Not limited | Internal error | Check DEVICE_STATUS (section 5.3). |
| Bad | Sensor Failure | Not limited | The sensor has ····· | |
| | | ~~High~~ | Positive over range, positive over display range | See chapters 5 and 11 of the DX/MV's User's Manual. |
| | | ~~Low~~ | Negative over range, negative over display range | See chapters 5 and 11 of the DX/MV's User's Manual. |
| Bad | Out of Service | Not limited | The RB is in OOS mode. | 3.4 |
| | | | EEPROM failure | Check DEVICE_STATUS (section 5.3). |
| | | | TB or AI is in OOS mode. | 3.4 |

**Page 5-5 "FIELD_VAL (AI) Status and Corrective Actions (when the simulation function is not in use)"**

| Quality | Sub status | Limit | Cause | Corrective Action/Reference Section |
|---|---|---|---|---|
| Bad | Sensor Failure | Not limited | The sensor has ····· | |
| | | ~~High~~ | Positive over range, positive over display range | See chapters 5 and 11 of the DX/MV's User's Manual. |
| | | ~~Low~~ | Negative over range, negative over display range | See chapters 5 and 11 of the DX/MV's User's Manual. |

**Page 5-5 "Status of OUT_1 through OUT_8 (MAI) and Corrective Actions"**

| Quality | Sub status | Limit | Cause | Corrective Action/Reference Section |
|---|---|---|---|---|
| ~~Bad~~ | ~~Non-specific~~ | ~~Not limited~~ | ~~The RB is in OOS mode.~~ | ~~3.4~~ |
| | | | ~~EEPROM failure~~ | ~~Check DEVICE_STATUS (section 5.3).~~ |
| ..... | | | | |
| Bad | Sensor Failure | Not limited | The sensor has ..... | |
| | | ~~High~~ | Positive over range, positive over display range | See chapters 5 and 11 of the DX/MV's User's Manual. |
| | | ~~Low~~ | Negative over range, negative over display range | See chapters 5 and 11 of the DX/MV's User's Manual. |
| Bad | Out of Service | Not limited | The RB is in OOS mode. | 3.4 |
| | | | EEPROM failure | Check DEVICE_STATUS (section 5.3). |
| | | | TB or MAI is in OOS mode. | 3.4 |

**Page 5-9 "AI Function Block"**

| Bit | Indication | Description | Corrective Action/Reference Section |
|---|---|---|---|
| 3 | Simulate Active | Simulate Enable/Disable of SIMULATE of the AI is set to Active (Enable) | 4.3 |

**Page App-8**

| Index | Parameter | Data Type | Attribute | Initial Value |
|---|---|---|---|---|
| 354 | VCR_DYNAMIC_ENTRY.31 | DS-98 | | |

**Page App-9**

| Index | Parameter | Data Type | Attribute | Initial Value |
|---|---|---|---|---|
| 361 | DLME_BASIC_INFO | DS-101 | | |
| | 2 Per Dlpdu Phl Overhead | Usign8 | - | 0 |

**Page App-12, App-17**

| R | Parameter | Data Type | Attribute | Write | Store | Initial Value | Description |
|---|---|---|---|---|---|---|---|
| 0 | BLOCK | DS-64 | C/S | | | | Structure information of the block |
| | 10 Next FB to Execute | Usign16 | C/S | ANY | - | 0 | Only a value "0" is acceptable. |

**Page App-20, App-24, App-26**

| R | Parameter | Data Type | Attribute | Write | Store | Initial Value | Description |
|---|---|---|---|---|---|---|---|
| 0 | BLOCK | DS-64 | C/S | | | | Structure information of the block |
| | 10 Next FB to Execute | Usign16 | C/S | ANY | - | 0 | The FB to be executed next. Only a value "0" is acceptable. |

**Page App-22**

| R | Parameter | Data Type | Attribute | Write | Store | Initial Value | Description |
|---|---|---|---|---|---|---|---|
| 22 | ALARM_SUM | DS-74 | C/D | | | | Displays the alarm summary of the AI |
| | 4 Disabled | Bit[2] | C/S | ANY | EEP | 0 | See the explanation of the RB parameter. |

**Page App-26, App-27**

| R | Parameter | Data Type | Attribute | Write | Store | Initial Value | Description |
|---|---|---|---|---|---|---|---|
| 8 to 15 | IN_1 to IN_8 | DS-65 | I/N | | | | Retrieved data |
| | 1 Status | Usign8 | I/N | ANY | RAM | bad, not connect | Status of IN_1 to IN_8 |

**Page App-28 "Alert Object (Index number 31000 to 31002)"**

- Three Alert Objects with index numbers 31000 through 31002 are for process alarms (31000), for block alarms and write lock alarms (31001), and for update events (31002), respectively.
- Alert Object for update events does not have subparameters "8 Subcode" and "9 Value." They are replaced by "8 Relative Index" and "9 Unit Index" in the following table.