

4. Pressure setting method and output monitoring

Pressure can be set by sending input data from the master PLC to the regulator where the F.S is based on a 12 BIT resolution.

Do not operate the product outside of the specifications.

<Relationship between set data and pressure>

| | | |
|-----------------|--------|--------|
| Set data | 0x0000 | 0x7FF8 |
| Output pressure | 0% | 100% |

From the 16 BIT process data (2byte), input the 12BIT resolution starting from 3rd BIT to the 14th BIT.

Refer to the communication data for further details.

5. Communication data

5.1 Process data map

PD OUT (to ITV)

| 15*1 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | Bit |
|-----------------------------|----|----|----|----|----|---|---|---|---|---|---|---|------------|---|---|-------|
| Set pressure value.(13 BIT) | | | | | | | | | | | | | Disabled*2 | | | Value |

100% F.S.is indicated using 12 BITs, from the 3rd BIT to the 14th BIT.

*1 Setting up to 120% F.S is possible by using the 15th BIT (However this is out of warranty).

*2 Either 0 or 1 will have no effect.

PD IN (from ITV)

| 15*3 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | Bit |
|-------------------------|----|----|----|----|----|---|---|---|---|---|---|---|-----------|---|------|-------|
| Output pressure (13BIT) | | | | | | | | | | | | | On hold*4 | | BDC1 | Value |

100% F.S. is indicated using 12 BITs, from the 3rd BIT to the 14th BIT.

*3 Setting up to 120% F.S is possible by using the 15th BIT (However this is out of warranty).

*4 0 is returned in an unused area.

■ Detection of the set pressure

| | | |
|------|---|----------------------------------|
| BDC1 | 1 | When set pressure is reached |
| | 0 | When set pressure is not reached |

*It detects when the output pressure reaches within $\pm 10\%$ F.S. of the set pressure.

5.2 List of parameters

| INDEX | Name: | Function |
|-------|-----------------------------|--|
| 0x0C | Device access lock | The setting of the device access lock is changed. |
| 0x42 | Gain tuning function | Sets the response time. |
| 0x43 | Sensitivity tuning function | Sets the sensitivity. |
| 0x41 | HOLD/CLEAR setting | Sets the operation in response to a communication error. |
| 0x44 | Initialization | Resets the settings to the default value. |
| 0x46 | Zero adjustment | Sets the minimum pressure. |
| 0x47 | Span adjustment | Sets the maximum pressure. |