



FnIO S-series

Configuration Parameter & Memory Register

DOCUMENT CHANGE SUMMARY				
REV.	PAGES	REMARKS	DATE	Editor
1.00		NEW Document	2011/09/14	Kang, Jieun
1.01		Error Corrections	2011/10/07	Kang, Jieun
1.02		NEW ST-2924, 2944, 2734	2011/10/14	Kang, Jieun
1.03		NEW ST-3901	2011/10/31	Kang, Jieun
1.04		Emend Analog Output 4ch	2011/12/29	Kang, Jieun
1.05	30~33	Delete the 9Data Bit of 4-5bit	2012/1/5	Kang, Jieun
1.06		Add ST-5252, ST-5272 (Coming soon)	2012/1/13	Kang, Jieun
1.07		Modify 'wrong letters' Modify the Parameter of ST-4114, ST-4214, ST-4424	2012/3/19	Kang, Jieun

1. Configuration Parameter

1.1. Digital Input Module

1.1.1. ST-1114 (4-sinking input, 5Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.2. ST-111F (16-sinking input, 5Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.3. ST-1124 (4-sourcing input, 5Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.4. ST-112F (16-sourcing input, 5Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.5. ST-1214 (4-sinking input, 24Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.6. ST-1218 (8-sinking input, 24Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.7. ST-121F (16-sinking input, 24Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.8. ST-1224 (4-sourcing input, 24Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.9. ST-1228 (8-sourcing input, 24Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.10. ST-122F (16-sourcing input, 24Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.11. ST-1314 (4-sinking input, 48Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.12. ST-131F (16-sinking input, 48Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.13. ST-1324 (4-sourcing input, 48Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.14. ST-132F (16-sourcing input, 48Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.15. ST-1804 (4-ac input, 110Vac)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.1.16. ST-1904 (4-ac input, 220Vac)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.2. Digital Output Module

1.2.1. ST-2114 (4-TTL Inverting output, 5Vdc 20mA)

- ☐ Valid Parameter length: 2 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.2. ST-2124 (4-TTL Non-Inverting output, 5Vdc 20mA)

- ☐ Valid Parameter length: 2 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.3. ST-221F (16-sinking output, 24Vdc 0.3A)

- ☐ Valid Parameter length: 4 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Fault Action (ch0~ch7) 0: Fault Value, 1: Hold last state	0 (Fault Value)
1	00-07	Fault Action (ch8~ch15) 0: Fault Value, 1: Hold last state	0 (Fault Value)
2	00-07	Fault Value (ch0~ch7) 0: off, 1: on	0 (off)
3	00-07	Fault Value (ch8~ch15) 0: off, 1: on	0 (off)
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.4. ST-222F (16-sourcing output, 24Vdc 0.3A)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Fault Action (0~7) 0: Fault Value, 1: Hold last state	0 (Fault Value)
1	00-07	Fault Action (8~15) 0: Fault Value, 1: Hold last state	0 (Fault Value)
2	00-07	Fault Value (0~7) 0: off, 1: on	0 (off)
3	00-07	Fault Value (8~15) 0: off, 1: on	0 (off)
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.5. ST-2314 (4-sinking output, 24Vdc 0.5A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.6. ST-2318 (8-sinking output, 24Vdc 0.5A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Fault Action (0~7) 0: Fault Value, 1: Hold last state	0 (Fault Value)
1	00-07	Fault Value (0~7) 0: off, 1: on	0 (off)
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.7. ST-2324 (4-sourcing output, 24Vdc 0.5A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.8. ST-2328 (8-sourcing output, 24Vdc 0.5A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Fault Action (0~7) 0: Fault Value, 1: Hold last state	0 (Fault Value)
1	00-07	Fault Value (0~7) 0: off, 1: on	0 (off)
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.9. ST-2414 (4-sinking output, Diag, 24Vdc 0.5A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.10. ST-2424 (4-sourcing output, Diag, 24Vdc 0.5A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.11. ST-2514 (4-sinking output, Diag, 24Vdc 2A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.12. ST-2524 (4-sourcing output, Diag, 24Vdc 2A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action 0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.13. ST-2614 (4-sinking output, 24Vdc 2A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.14. ST-2624 (4-sourcing output, 24Vdc 2A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.15. ST-2742 (2-relay output, 230Vac 2A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00, 01	Fault Action (ch0, ch1) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	02-07	Reserved	0
1	00, 01	Fault Value (ch0, ch1) 0: off, 1: on	0 (off)
	02-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.16. ST-2744 (4-relay output, 230Vac 2A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (ch0~ch3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (ch0~ch3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.17. ST-2748 (8-relay output, 230Vac 2A)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Fault Action (ch0~ch7) 0: Fault Value, 1: Hold last state	0 (Fault Value)
1	00-07	Fault Value (ch0~ch7) 0: off, 1: on	0 (off)
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.18. ST-2792 (2-relay output, 230Vac 2A, Manual Type)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00	Fault Action (ch0) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	01	Fault Action (ch1) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	02-07	Reserved	0 (off)
1	00	Fault Value (ch0) 0: off, 1: on	0 (off)
	01	Fault Value (ch1) 0: off, 1: on	0
	02-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.19. ST-2852 (2-triac output, 120Vac 0.5A)

☐ Valid Parameter length: 2 bytes☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00, 01	Fault Action (ch0, ch1) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	02-07	Reserved	0
1	00, 01	Fault Value (ch0, ch1) 0: off, 1: on	0 (off)
	02-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.20. ST-2924 (4-output, AC/DC 24V 2A) **NEW**☐ Valid Parameter length: 2 bytes☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.21. ST-2944 (4-output, AC/DC 24V 2A) **NEW**☐ Valid Parameter length: 2 bytes☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.2.22. ST-2734 (4-output, AC/DC 24V/110V/220V 0.5A) NEW

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Fault Action (0~3) 0: Fault Value, 1: Hold last state	0 (Fault Value)
	04-07	Reserved	0
1	00-03	Fault Value (0~3) 0: off, 1: on	0 (off)
	04-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.3. Analog Input Module

1.3.1. ST-3114 (4-current analog input, 0~20mA, 12bit)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.3.2. ST-3118 (8-current analog input, 0~20mA, 12bit)

- ☐ Valid Parameter length: 2 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.3.3. ST-3134 (4-current analog input, 0~20mA, 14bit)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.3.4. ST-3214 (4-current analog input, 4~20mA, 12bit)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.3.5. ST-3218 (8-current analog input, 4~20mA, 12bit)

- ☐ Valid Parameter length: 2 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.3.6. ST-3234 (4-current analog input, 4~20mA, 14bit)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.3.7. ST-3424 (4-voltage analog input, 0~10V, 12bit)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.3.8. ST-3428 (8-voltage analog input, 0~10V, 12bit)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.3.9. ST-3444 (4-voltage analog input, 0~10V, 14bit)

☐ Valid Parameter length: 0 byte

☐ Parameter Data: All of Parameter Data is not used.

1.3.10. ST-3474 (4-voltage analog input, 0~10V, 12bit, Sensor Connector)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.3.11. ST-3524 (4-voltage analog input, -10~10V, 12bit)

☐ Valid Parameter length: 0 byte

☐ Parameter Data: All of Parameter Data is not used.

1.3.12. ST-3544 (4-voltage analog input, -10~10V, 14bit)

☐ Valid Parameter length: 0 byte

☐ Parameter Data: All of Parameter Data is not used.

1.3.13. ST-3624 (4-voltage analog input, 0~5V, 12bit)

☐ Valid Parameter length: 0 byte

☐ Parameter Data: All of Parameter Data is not used.

1.3.14. ST-3644 (4-voltage analog input, 0~5V, 14bit)

☐ Valid Parameter length: 0 byte

☐ Parameter Data: All of Parameter Data is not used.

1.3.15. ST-3702 (2- RTD/Resistance input)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	The selection Sensor Type =00h:PT100, 0.00385, -200~850°C, 0.1°C/count =01h:PT200, 0.00385, -200~850°C, 0.1°C/count =02h:PT500, 0.00385, -200~850°C, 0.1°C/count =03h:PT1000, 0.00385, -200~350°C, 0.1°C/count =04h:PT50, 0.00385, -200~850°C, 0.1°C/count =10h:JPT100, 0.003916, -200~640°C, 0.1°C/count =11h:JPT200, 0.003916, -200~640°C, 0.1°C/count =12h:JPT500, 0.003916, -200~640°C, 0.1°C/count =13h:JPT1000, 0.003916, -200~350°C, 0.1°C/count =20h:NI100, 0.00618, -60~250°C, 0.1°C/count =21h:NI200, 0.00618, -60~250°C, 0.1°C/count =22h:NI500, 0.00618, -60~250°C, 0.1°C/count =23h:NI1000, 0.00618, -60~180°C, 0.1°C/count =30h:NI120, 0.00672, -80~250°C, 0.1°C/count =40h:CU10, 0.00427, -200~260°C, 0.1°C/count =80h:Resistance Input, 1~2000Ω, 100mΩ/1count =81h: Resistance Input, 1~327Ω, 10mΩ/1count =82h: Resistance Input, 1~620Ω, 20mΩ/1count =Others: Reserved	0: PT100
1	00	Temperature Type 0: Celsius(°C), 1: Fahrenheit(°F)	0: Celsius(°C)
	01	Reserved	0
	02	Data Resolution 0: 0.1°C, °F/bit, 1: 1°C, °F/bit	0
	03	Reserved	0
	04	Filter Type 0: Normal Filter, 1: Enhanced Filter	0: Normal Filter
	05-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.3.16. ST-3704 (4- RTD/Resistance input)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	The selection Sensor Type =00h:PT100, 0.00385, -200~850°C, 0.1°C/count =01h:PT200, 0.00385, -200~850°C, 0.1°C/count =02h:PT500, 0.00385, -200~850°C, 0.1°C/count =03h:PT1000, 0.00385, -200~350°C, 0.1°C/count =04h:PT50, 0.00385, -200~850°C, 0.1°C/count =10h:JPT100, 0.003916, -200~640°C, 0.1°C/count =11h:JPT200, 0.003916, -200~640°C, 0.1°C/count =12h:JPT500, 0.003916, -200~640°C, 0.1°C/count =13h:JPT1000, 0.003916, -200~350°C, 0.1°C/count =20h:NI100, 0.00618, -60~250°C, 0.1°C/count =21h:NI200, 0.00618, -60~250°C, 0.1°C/count =22h:NI500, 0.00618, -60~250°C, 0.1°C/count =23h:NI1000, 0.00618, -60~180°C, 0.1°C/count =30h:NI120, 0.00672, -80~250°C, 0.1°C/count =40h:CU10, 0.00427, -200~260°C, 0.1°C/count =80h:Resistance Input, 1~2000Ω, 100mΩ/1count =81h: Resistance Input, 1~327Ω, 10mΩ/1count =82h: Resistance Input, 1~620Ω, 20mΩ/1count =Others: Reserved	0: PT100
1	00	Temperature Type 0: Celsius(°C), 1: Fahrenheit(°F)	0: Celsius(°C)
	01	Reserved	0
	02	Data Resolution 0: 0.1°C, °F/bit, 1: 1°C, °F/bit	0
	03	Reserved	0
	04	Filter Type 0: Normal Filter, 1: Enhanced Filter	0: Normal Filter
	05-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.3.17. ST-3708 (8- RTD/Resistance input)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	The selection Sensor Type =00h:PT100, 0.00385, -200~850°C, 0.1°C/count =01h:PT200, 0.00385, -200~850°C, 0.1°C/count =02h:PT500, 0.00385, -200~850°C, 0.1°C/count =03h:PT1000, 0.00385, -200~350°C, 0.1°C/count =04h:PT50, 0.00385, -200~850°C, 0.1°C/count =10h:JPT100, 0.003916, -200~640°C, 0.1°C/count =11h:JPT200, 0.003916, -200~640°C, 0.1°C/count =12h:JPT500, 0.003916, -200~640°C, 0.1°C/count =13h:JPT1000, 0.003916, -200~350°C, 0.1°C/count =20h:NI100, 0.00618, -60~250°C, 0.1°C/count =21h:NI200, 0.00618, -60~250°C, 0.1°C/count =22h:NI500, 0.00618, -60~250°C, 0.1°C/count =23h:NI1000, 0.00618, -60~180°C, 0.1°C/count =30h:NI120, 0.00672, -80~250°C, 0.1°C/count =40h:CU10, 0.00427, -200~260°C, 0.1°C/count =80h:Resistance Input, 1~2000Ω, 100mΩ/1count =81h: Resistance Input, 1~327Ω, 10mΩ/1count =82h: Resistance Input, 1~620Ω, 20mΩ/1count =Others: Reserved	0: PT100
1	00	Temperature Type 0: Celsius(°C), 1: Fahrenheit(°F)	0: Celsius(°C)
	01	Reserved	0
	02	Data Resolution 0: 0.1°C, °F/bit, 1: 1°C, °F/bit	0
	03	Reserved	0
	04	Filter Type 0: Normal Filter, 1: Enhanced Filter	0: Normal Filter
	05-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.3.18. ST-3714 (4- RTD/Temperature Controller, SSR)

☐ Valid Parameter length: 8 bytes

☐ Parameter Data: Reserved, TBD

1.3.19. ST-3734 (4- RTD/ Temperature Controller)

☐ Valid Parameter length: 8 bytes

☐ Parameter Data: Reserved, TBD

1.3.20. ST-3802 (2- Thermocouple/mV input)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	The selection Sensor Type =00h: Type K, 0.1 °C/count =01h: Type J, 0.1 °C/count =02h: Type T, 0.1 °C/count =03h: Type B, 0.1 °C/count =04h: Type R, 0.1 °C/count =05h: Type S, 0.1 °C/count =06h: Type E, 0.1 °C/count =07h: Type N, 0.1 °C/count =08h: Type L, 0.1 °C/count =09h: Type U, 0.1 °C/count =0Ah: Type C, 0.1 °C/count =0Bh: Type D, 0.1 °C/count =80h: 10uV Input, -78.0~78.0mV, 10uV/count =81h: 1uV Input, -32.7~32.7mV, 1uV/count =82h: 2uV Input, -65.5~65.5mV, 2uV/count =Others: Reserved	0: Type K
1	00	Temperature Type 0: Celsius(°C), 1: Fahrenheit(°F)	0: Celsius(°C)
	01	0: Cold Junction Compensation* 1: Disable Compensation**	0
	02	Data Resolution 0: 0.1 °C, °F/bit, 1: 1 °C, °F/bit	0
	03	Reserved	
	04	Filter Type 0: Normal Filter, 1: Enhanced Filter	0: Normal Filter
	05-07	Reserved	0
2	00-07	Cold Junction Temperature Offset Data Low Byte	0
3	00-07	Cold Junction Temperature Offset Data High Byte	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

- Unit of Cold Junction Temperature is 0.1 °C/°F. Value 254 means 25.4 °C or 25.4 °F

- * 0 : Compensation Cold Junction Temperature = Cold Junction Temperature – Cold Junction Temperature Offset

- ** 1 : Compensation Cold Junction Temperature = Cold Junction Temperature Offset

- All values are stored in Adapter's EEPROM.

1.3.21. ST-3804 (4- Thermocouple/mV input)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	The selection Sensor Type =00h: Type K, 0.1 °C/count =01h: Type J, 0.1 °C/count =02h: Type T, 0.1 °C/count =03h: Type B, 0.1 °C/count =04h: Type R, 0.1 °C/count =05h: Type S, 0.1 °C/count =06h: Type E, 0.1 °C/count =07h: Type N, 0.1 °C/count =08h: Type L, 0.1 °C/count =09h: Type U, 0.1 °C/count =0Ah: Type C, 0.1 °C/count =0Bh: Type D, 0.1 °C/count =80h: 10uV Input, -78.0~78.0mV, 10uV/count =81h: 1uV Input, -32.7~32.7mV, 1uV/count =82h: 2uV Input, -65.5~65.5mV, 2uV/count =Others: Reserved	0: Type K
1	00	Temperature Type 0: Celsius(°C), 1: Fahrenheit(°F)	0: Celsius(°C)
	01	0: Cold Junction Compensation 1: Disable Compensation	0
	02	Data Resolution 0: 0.1 °C, °F/bit, 1: 1 °C, °F/bit	0
	03	Reserved	
	04	Filter Type 0: Normal Filter, 1: Enhanced Filter	0: Normal Filter
	05-07	Reserved	0
2	00-07	Cold Junction Temperature Offset Data Low Byte	0
3	00-07	Cold Junction Temperature Offset Data High Byte	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

- Unit of Cold Junction Temperature is 0.1 °C/°F. Value 254 means 25.4 °C or 25.4 °F

- * 0 : Compensation Cold Junction Temperature = Cold Junction Temperature – Cold Junction Temperature Offset

- ** 1 : Compensation Cold Junction Temperature =Cold Junction Temperature Offset

- All values are stored in Adapter's EEPROM.

1.3.22. ST-3808 (8- Thermocouple/mV input)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	The selection Sensor Type =00h: Type K, 0.1 °C/count =01h: Type J, 0.1 °C/count =02h: Type T, 0.1 °C/count =03h: Type B, 0.1 °C/count =04h: Type R, 0.1 °C/count =05h: Type S, 0.1 °C/count =06h: Type E, 0.1 °C/count =07h: Type N, 0.1 °C/count =08h: Type L, 0.1 °C/count =09h: Type U, 0.1 °C/count =0Ah: Type C, 0.1 °C/count =0Bh: Type D, 0.1 °C/count =80h: 10uV Input, -78.0~78.0mV, 10uV/count =81h: 1uV Input, -32.7~32.7mV, 1uV/count =82h: 2uV Input, -65.5~65.5mV, 2uV/count =Others: Reserved	0: Type K
1	00	Temperature Type 0: Celsius(°C), 1: Fahrenheit(°F)	0: Celsius(°C)
	01	0: Cold Junction Compensation 1: Disable Compensation	0
	02	Data Resolution 0: 0.1 °C, °F/bit, 1: 1 °C, °F/bit	0
	03	Reserved	
	04	Filter Type 0: Normal Filter, 1: Enhanced Filter	0: Normal Filter
	05-07	Reserved	0
2	00-07	Cold Junction Temperature Offset Data Low Byte	0
3	00-07	Cold Junction Temperature Offset Data High Byte	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

- Unit of Cold Junction Temperature is 0.1 °C/°F. Value 254 means 25.4 °C or 25.4 °F

- * 0 : Compensation Cold Junction Temperature = Cold Junction Temperature – Cold Junction Temperature Offset

- ** 1 : Compensation Cold Junction Temperature = Cold Junction Temperature Offset

- All values are stored in Adapter's EEPROM.

1.3.23. ST-3814 (4- TC, Temperature Controller, SSR)

☐ Valid Parameter length: 8 bytes

☐ Parameter Data: Reserved, TBD

1.3.24. ST-3834 (4- TC, Temperature Controller)

☐ Valid Parameter length: 8 bytes

☐ Parameter Data: Reserved, TBD

1.3.25. ST-3901 (3Phase, AC Measurement, 500V/2A AC) NEW

- ☐ Valid Parameter length: 2 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

1.4. Analog Output Module

1.4.1. ST-4112 (2-current analog output, 0~20mA, 12bit)

- ☐ Valid Parameter length: 6 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Channel 0 Fault Value Low Byte	0
3	00-03	Channel 0 Fault Value High Byte	0
	04-07	Reserved	0
4	00-07	Channel 1 Fault Value Low Byte	0
5	00-03	Channel 1 Fault Value High Byte	0
	04-07	Reserved	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.2. ST-4114 (4-current analog output, 0~20mA, 12bit)

- ☐ Valid Parameter length: 4 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-05	Fault Action for channel 2 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	06-07	Fault Action for channel 3 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
1	00-07	Reserved	0
2	00-07	Channel 0~3 Fault Value Low Byte	0
3	00-03	Channel 0~3 Fault Value High Byte	0
	04-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.3. ST-4212 (2-current analog output, 4~20mA, 12bit)

☐ Valid Parameter length: 6 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Channel 0 Fault Value Low Byte	0
3	00-03	Channel 0 Fault Value High Byte	0
	04-07	Reserved	0
4	00-07	Channel 1 Fault Value Low Byte	0
5	00-03	Channel 1 Fault Value High Byte	0
	04-07	Reserved	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.4. ST-4214 (4-current analog output, 4~20mA, 12bit)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-05	Fault Action for channel 2 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	06-07	Fault Action for channel 3 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
1	00-07	Reserved	0
2	00-07	Channel 0~3 Fault Value Low Byte	0
3	00-03	Channel 0~3 Fault Value High Byte	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.5. ST-4274 (4-current analog output, 4~20mA, 12bit, Sensor Connector)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-05	Fault Action for channel 2 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	06-07	Fault Action for channel 3 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
1	00-07	Reserved	0
2	00-07	Channel 0~3 Fault Value Low Byte	0
3	00-07	Channel 0~3 Fault Value High Byte	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.6. ST-4422 (2-voltage analog output, 0~10Vdc, 12bit)

☐ Valid Parameter length: 6 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Channel 0 Fault Value Low Byte	0
3	00-03	Channel 0 Fault Value High Byte	0
	04-07	Reserved	0
4	00-07	Channel 1 Fault Value Low Byte	0
5	00-03	Channel 1 Fault Value High Byte	0
	04-07	Reserved	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.7. ST-4424 (4-voltage analog output, 0~10Vdc, 12bit)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-05	Fault Action for channel 2 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	06-07	Fault Action for channel 3 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
1	00-07	Reserved	0
2	00-07	Channel 0~3 Fault Value Low Byte	0
3	00-03	Channel 0~3 Fault Value High Byte	0
	04-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.8. ST-4474 (4-voltage analog output, 0~10Vdc, 12bit, Sensor Connector)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-05	Fault Action for channel 2 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	06-07	Fault Action for channel 3 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
1	00-07	Reserved	0
2	00-07	Channel 0~3 Fault Value Low Byte	0
3	00-07	Channel 0~3 Fault Value High Byte	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.9. ST-4491 (1-voltage analog output, 0~10Vdc, 12bit, Manual Type)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Channel 0 Fault Value Low Byte	0
3	00-03	Channel 0 Fault Value High Byte	0
	04-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.10. ST-4522 (2-voltage analog output, -10~10Vdc, 12bit)

☐ Valid Parameter length: 6 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Channel 0 Fault Value Low Byte	0
3	00-07	Channel 0 Fault Value High Byte	0
4	00-07	Channel 1 Fault Value Low Byte	0
5	00-07	Channel 1 Fault Value High Byte	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.11. ST-4622 (2-voltage analog output, 0~5Vdc, 12bit)

☐ Valid Parameter length: 6 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-03	Fault Action for channel 1 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	04-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Channel 0 Fault Value Low Byte	0
3	00-03	Channel 0 Fault Value High Byte	0
	04-07	Reserved	0
4	00-07	Channel 1 Fault Value Low Byte	0
5	00-03	Channel 1 Fault Value High Byte	0
	04-07	Reserved	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.4.12. ST-4911 (1-current analog output, 0~1A, 12bit)

☐ Valid Parameter length: 6 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-01	Fault Action for channel 0 00: Fault Value, 01: Hold last state, 10: Low Limit, 11:High Limit	0 (Fault Value)
	02-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Channel 0 Fault Value Low Byte	0
3	00-03	Channel 0 Fault Value High Byte	0
	04-07	Reserved	0
4	00-07	Reserved	0
5	00-07	Reserved	0
6	00-07	Not used	0
7	00-07	Not used	0

1.5. Special Module

1.5.1. ST-5101 (1 Channel High Speed Counter 5Vdc)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Counter Mode 0000 : Counter Disabled 0101 : Encoder x4 0001 : 1Pulse Mode 0110 : Period/Rate Mode 0010 : 2Pulse Mode 0111 : reserved 0011 : Encoder x1 1000 : PWM Output Mode 0100 : Encoder x2 1001 : reserved Others : Counter Disable	0
	04-07	Gate Function 0000 : Gate Function Disabled 0011 : Store-Reset/Wait/Start 0001 : Store/Continue 0100 : Store-Reset/Start 0010 : Store/Wait/Resume Others : Gate Function Disabled	0
1	00-03	Input Filter 0000 : Bypass(about 1.5MHz) 0101: 100usec (5KHz±30%) 0001: 1usec (500KHz±30%) 0110: 500usec (1KHz±30%) 0010: 5usec (100KHz±30%) 0111: 1msec (500Hz±30%) 0011: 10usec (50KHz±30%) 1000: 5msec (100Hz±30%) 0100: 50usec (10KHz±30%) 1001: 10msec (50Hz±30%) Others : Bypass(about 1.5MHz)	0
	04-07	Gate Sampling Time 0000 : (10/1)MHz (0.1usec) 0100 : (10/16)MHz (1.6usec) 0001 : (10/2)MHz (0.2usec) 0101 : (10/32)MHz (3.2usec) 0010 : (10/4)MHz (0.4usec) 0110 : (10/64)MHz (6.4usec) 0011 : (10/8)MHz (0.8usec) 0111 : (10/128)MHz (12.8usec) Others : (10/1)MHz (0.1usec)	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.2. ST-5111 (1 Channel High Speed Counter 24Vdc)

□ Valid Parameter length: 2 bytes

□ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Counter Mode 0000 : Counter Disabled 0101 : Encoder x4 0001 : 1Pulse Mode 0110 : Period/Rate Mode 0010 : 2Pulse Mode 0111 : reserved 0011 : Encoder x1 1000 : PWM Output Mode 0100 : Encoder x2 1001 : reserved Others : Counter Disable	0
	04-07	Gate Function 0000 : Gate Function Disabled 0011 : Store-Reset/Wait/Start 0001 : Store/Continue 0100 : Store-Reset/Start 0010 : Store/Wait/Resume Others : Gate Function Disabled	0
1	00-03	Input Filter 0000 : Bypass(about 1.5MHz) 0101: 100usec (5KHz±30%) 0001: 1usec (500KHz±30%) 0110: 500usec (1KHz±30%) 0010: 5usec (100KHz±30%) 0111: 1msec (500Hz±30%) 0011: 10usec (50KHz±30%) 1000: 5msec (100Hz±30%) 0100: 50usec (10KHz±30%) 1001: 10msec (50Hz±30%) Others : Bypass(about 1.5MHz)	0
	04-07	Gate Sampling Time 0000 : (10/1)MHz (0.1usec) 0100 : (10/16)MHz (1.6usec) 0001 : (10/2)MHz (0.2usec) 0101 : (10/32)MHz (3.2usec) 0010 : (10/4)MHz (0.4usec) 0110 : (10/64)MHz (6.4usec) 0011 : (10/8)MHz (0.8usec) 0111 : (10/128)MHz (12.8usec) Others : (10/1)MHz (0.1usec)	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.3. ST-5112 (2 Channel High Speed Counter 24Vdc)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Reserved	0
3	00-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.4. ST-5114 (4 Channel High Speed Counter 24Vdc)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Reserved	0
3	00-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.5. ST-5211 (1 Channel Serial Interface RS-232)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Baud Rate 0000 : 300bps 0101 : 19200bps 0001 : 1200bps 0110 : 38400bps 0010 : 2400bps 0111 : 57600bps 0011 : 4800bps 1000 : 115200bps 0100 : 9600bps Others : Unused	0100
	04-05	Data Bit 00 : 7 Data bit 01 : 8 Data bit Others: Unused	01
	06-07	Parity Bit 00 : No Parity 10 : Even Parity 01 : Odd Parity Others : Unused	00
1	00	Stop Bit 0: 1bit 1: 2bit	0
	01	TxD Process 0: Disable 1: Enable	0
	02-03	CTS/RTS Flow Control 00: RTS/CTS Disable 10: CTS Enable 01: RTS Enable 11: RTS/CTS Enable	00
	04-07	Reserved	0
2	00-07	Reserved	0
3	00-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.6. ST-5212 (2 Channel Serial Interface RS-232)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Baud Rate 0000 : 300bps 0101 : 19200bps 0001 : 1200bps 0110 : 38400bps 0010 : 2400bps 0111 : 57600bps 0011 : 4800bps 1000 : 115200bps 0100 : 9600bps Others : Unused	0100
	04-05	Data Bit 00 : 7 Data bit 01 : 8 Data bit Others: Unused	01
	06-07	Parity Bit 00 : No Parity 10 : Even Parity 01 : Odd Parity Others : Unused	00
1	00	Stop Bit 0: 1bit 1: 2bit	0
	01	TxD Process 0: Disable 1: Enable	0
	02-07	Reserved	
2	00-03	Baud Rate 0000 : 300bps 0101 : 19200bps 0001 : 1200bps 0110 : 38400bps 0010 : 2400bps 0111 : 57600bps 0011 : 4800bps 1000 : 115200bps 0100 : 9600bps Others : Unused	0100
	04-05	Data Bit 00 : 7 Data bit 01 : 8 Data bit Others: Unused	01
	06-07	Parity Bit 00 : No Parity 10 : Even Parity 01 : Odd Parity Others : Unused	00
3	00	Stop Bit 0: 1bit 1: 2bit	0
	01	TxD Process 0: Disable 1: Enable	0
	02-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.7. ST-5221 (1 Channel Serial Interface RS-422)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Baud Rate	0100
	04-05	Data Bit	01
	06-07	Parity Bit	00
1	00	Stop Bit	0
	01	TxD Process	0
	02-03	CTS/RTS Flow Control	00
	04-07	Reserved	0
2	00-07	Reserved	0
3	00-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

* Same as ST-5211

1.5.8. ST-5231 (1 Channel Serial Interface RS-485)

☐ Valid Parameter length: 4 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Baud Rate	0100
	04-05	Data Bit	01
	06-07	Parity Bit	00
1	00	Stop Bit	0
	01	TxD Process	0
	02-03	CTS/RTS Flow Control	00
	04-07	Reserved	0
2	00-07	Reserved	0
3	00-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

* Same as ST-5212

1.5.9. ST-5232 (2 Channel Serial Interface RS-485)

- ☐ Valid Parameter length: 4 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-03	Baud Rate	0100
	04-05	Data Bit	01
	06-07	Parity Bit	00
1	00	Stop Bit	0
	01	TxD Process	0
	02-07	Reserved	0
2	00-03	Baud Rate	0100
	04-05	Data Bit	01
	06-07	Parity Bit	00
3	00	Stop Bit	0
	01	TxD Process	0
	02-07	Reserved	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

* Same as ST-5212

1.5.10. ST-5252 (2 Channel Serial Interface RS-232, Premium Type) Coming Soon

- ☐ Valid Parameter length: 23 bytes
- ☐ Parameter Data:

Offset	Decimal Bit							
00	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0-ch Stop Bit 0: 1bit 1: 2bit (*default : 0)	0-ch Parity Bit 00:No Parity(*default) 01:Odd Parity 10:Even Parity Others: Unused		0-ch Data bit 00: 7 Data Bit 01: 8 Data Bit(*default) Others: Unused		0-ch Baud Rate 000 : 1200bps 001 : 2400bps 010 : 4800bps 011 : 9600bps (*default) 100 : 19200bps 101 : 38400bps 110 : 57600bps 111 : 115200bps		
01	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	1-ch Stop Bit 0: 1bit 1: 2bit (*default : 0)	1-ch Parity Bit 00: No Parity(*default) 01: Odd Parity 10: Even Parity Others: Unused		1-ch Data bit 00 : 7 Data Bit 01 : 8 Data Bit(*default) Others: Unused		1-ch Baud Rate 000 : 1200bps 001 : 2400bps 010 : 4800bps 011 : 9600bps (*default) 100 : 19200bps 101 : 38400bps 110 : 57600bps 111 : 115200bps		
02	0- Channel (Set Parameter about Start and end Character)							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	TxD End Character 00 : Disable(*default)		TxD Start Character 00 : Disable(*default)		RxD End Character 00 : Disable(*default)		RxD Start Character 00 : Disable(*default)	

	01 : TxD 1-E/C 10 : TxD 2-E/C 11 : Reserved(Disable)	01 : TxD 1-S/C 10 : TxD 2-S/C 11 : Reserved(Disable)	01 : RxD 1-E/C 10 : RxD 2-E/C 11 : Reserved(Disable)	01 : RxD 1-S/C 10 : RxD 2-S/C 11 : Reserved(Disable)				
03	1- Channel (Set Parameter about Start and end Character)							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	TxD End Character 00 : Disable(*default) 01 : TxD 1-E/C 10 : TxD 2-E/C 11 : Reserved(Disable)		TxD Start Character 00 : Disable(*default) 01 : TxD 1-S/C 10 : TxD 2-S/C 11 : Reserved(Disable)		RxD End Character 00 : Disable(*default) 01 : RxD 1-E/C 10 : RxD 2-E/C 11 : Reserved(Disable)		RxD Start Character 00 : Disable(*default) 01 : RxD 1-S/C 10 : RxD 2-S/C 11 : Reserved(Disable)	
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
04	0-ch RxD 1-S/C (*default : 0x00)							
05	0-ch RxD 1-S/C (*default : 0x00)							
06	0-ch RxD 1-E/C (*default : 0x00)							
07	0-ch RxD 2-E/C (*default : 0x00)							
08	0-ch TxD 1-S/C (*default : 0x00)							
09	0-ch TxD 2-S/C (*default : 0x00)							
10	0-ch TxD 1-E/C (*default : 0x00)							
11	0-ch TxD 2-E/C (*default : 0x00)							
12	1-ch RxD 1-S/C (*default : 0x00)							
13	1-ch RxD 2-S/C (*default : 0x00)							
14	1-ch RxD 1-E/C (*default : 0x00)							
15	1-ch RxD 2-E/C (*default : 0x00)							
16	1-ch TxD 1-S/C (*default : 0x00)							
17	1-ch TxD 2-S/C (*default : 0x00)							
18	1-ch TxD 1-E/C (*default : 0x00)							
19	1-ch TxD 2-E/C (*default : 0x00)							
20	0-Channel Fixed Length Function 0x00 : F/L Mode Disable(*default) 0x01 ~ 0xFF : F/L Mode Enable and Fixed Length Value							
21	1-Channel Fixed Length Function 0x00 : F/L Mode Disable(*default) 0x01 ~ 0xFF : F/L Mode Enable and Fixed Length Value							
22	0-Ch Timeout Value Setting 0(dec) : Timeout Disable 1(dec) : 100ms 50(dec) : 5,000ms(5sec) *default 100(dec) : 10,000ms(10sec) 200(dec) : 20,000ms(20sec) 255(dec) : 25,500ms(25.5sec)							
23	1-Ch Timeout Value Setting 0(dec) : Timeout Disable 1(dec) : 100ms 50(dec) : 5,000ms(5sec) *default 100(dec) : 10,000ms(10sec) 200(dec) : 20,000ms(20sec) 255(dec) : 25,500ms(25.5sec)							

1.5.11. ST-5272 (2 Channel Serial Interface RS-485, Premium Type)

- ☐ Valid Parameter length: 23 bytes
- ☐ Parameter Data:

Offset	Decimal Bit							
00	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	0-ch Stop Bit 0: 1bit 1: 2bit (*default : 0)	0-ch Parity Bit 00:No Parity(*default) 01:Odd Parity 10:Even Parity Others: Unused		0-ch Data bit 00: 7 Data Bit 01: 8 Data Bit(*default) Others: Unused		0-ch Baud Rate 000 : 1200bps 001 : 2400bps 010 : 4800bps 011 : 9600bps (*default) 100 : 19200bps 101 : 38400bps 110 : 57600bps 111 : 115200bps		
01	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	1-ch Stop Bit 0: 1bit 1: 2bit (*default : 0)	1-ch Parity Bit 00: No Parity(*default) 01: Odd Parity 10: Even Parity Others: Unused		1-ch Data bit 00 : 7 Data Bit 01 : 8 Data Bit(*default) Others: Unused		1-ch Baud Rate 000 : 1200bps 001 : 2400bps 010 : 4800bps 011 : 9600bps (*default) 100 : 19200bps 101 : 38400bps 110 : 57600bps 111 : 115200bps		
02	0- Channel (Set Parameter about Start and end Character)							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	TxD End Character 00 : Disable(*default) 01 : TxD 1-E/C 10 : TxD 2-E/C 11 : Reserved(Disable)		TxD Start Character 00 : Disable(*default) 01 : TxD 1-S/C 10 : TxD 2-S/C 11 : Reserved(Disable)		RxD End Character 00 : Disable(*default) 01 : RxD 1-E/C 10 : RxD 2-E/C 11 : Reserved(Disable)		RxD Start Character 00 : Disable(*default) 01 : RxD 1-S/C 10 : RxD 2-S/C 11 : Reserved(Disable)	
03	1- Channel (Set Parameter about Start and end Character)							
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
	TxD End Character 00 : Disable(*default) 01 : TxD 1-E/C 10 : TxD 2-E/C 11 : Reserved(Disable)		TxD Start Character 00 : Disable(*default) 01 : TxD 1-S/C 10 : TxD 2-S/C 11 : Reserved(Disable)		RxD End Character 00 : Disable(*default) 01 : RxD 1-E/C 10 : RxD 2-E/C 11 : Reserved(Disable)		RxD Start Character 00 : Disable(*default) 01 : RxD 1-S/C 10 : RxD 2-S/C 11 : Reserved(Disable)	
	Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
04	0-ch RxD 1-S/C (*default : 0x00)							
05	0-ch RxD 1-S/C (*default : 0x00)							
06	0-ch RxD 1-E/C (*default : 0x00)							
07	0-ch RxD 2-E/C (*default : 0x00)							
08	0-ch TxD 1-S/C (*default : 0x00)							
09	0-ch TxD 2-S/C (*default : 0x00)							
10	0-ch TxD 1-E/C (*default : 0x00)							
11	0-ch TxD 2-E/C (*default : 0x00)							
12	1-ch RxD 1-S/C (*default : 0x00)							
13	1-ch RxD 2-S/C (*default : 0x00)							
14	1-ch RxD 1-E/C (*default : 0x00)							
15	1-ch RxD 2-E/C (*default : 0x00)							
16	1-ch TxD 1-S/C (*default : 0x00)							

17	1-ch TxD 2- S/C (*default : 0x00)
18	1-ch TxD 1-E/C (*default : 0x00)
19	1-ch TxD 2-E/C (*default : 0x00)
20	0-Channel Fixed Length Function 0x00 : F/L Mode Disable(*default) 0x01 ~ 0xFF : F/L Mode Enable and Fixed Length Value
21	1-Channel Fixed Length Function 0x00 : F/L Mode Disable(*default) 0x01 ~ 0xFF : F/L Mode Enable and Fixed Length Value
22	0-Ch Timeout Value Setting 0(dec) : Timeout Disable 1(dec) : 100ms 50(dec) : 5,000ms(5sec) *default 100(dec) : 10,000ms(10sec) 200(dec) : 20,000ms(20sec) 255(dec) : 25,500ms(25.5sec)
23	1-Ch Timeout Value Setting 0(dec) : Timeout Disable 1(dec) : 100ms 50(dec) : 5,000ms(5sec) *default 100(dec) : 10,000ms(10sec) 200(dec) : 20,000ms(20sec) 255(dec) : 25,500ms(25.5sec)

1.5.12. ST-5351 (1 Channel SSI Interface)

- ☐ Valid Parameter length: 2 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.13. ST-5422 (2 Channel PWM Output, 1.5A/24Vdc)

- ☐ Valid Parameter length: 2 bytes
- ☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.14. ST-5442 (2 Channel PWM Output, 0.5A/24Vdc)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.15. ST-5444 (4 Channel PWM Output, 0.5A/24Vdc)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.16. ST-5641 (1 Channel Pulse Output, 0.5A/24Vdc)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.17. ST-5642 (2 Channel Pulse Output, 0.5A/24Vdc)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.18. ST-5651 (1 Channel Pulse Output, RS-422)

☐ Valid Parameter length: 2 bytes

☐ Parameter Data:

Offset	Decimal Bit	Description	Default Value
0	00-07	Reserved	0
1	00-07	Reserved	0
2	00-07	Not used	0
3	00-07	Not used	0
4	00-07	Not used	0
5	00-07	Not used	0
6	00-07	Not used	0
7	00-07	Not used	0

* All values are stored in Adapter's EEPROM.

1.5.19. ST-5725 (Extension Function IO, Master)

☐ Valid Parameter length: 0 byte

☐ Parameter Data: All of Parameter Data is not used.

1.5.20. ST-5726 (Extension Function IO, Slave)

☐ Valid Parameter length: 0 byte

☐ Parameter Data: All of Parameter Data is not used.

1.6. Power Module

1.6.1. ST-7008 (Shield Module)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.2. ST-7108 (Common, 0Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.3. ST-7118 (Common, 24Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.4. ST-7188 (Common, 24Vdc/0Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.5. ST-7408 (Shield Module, ID Type)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.6. ST-7508 (Common, 0Vdc, ID Type)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.7. ST-7518 (Common, 24Vdc, ID Type)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.8. ST-7588 (Common, 24Vdc/0Vdc, ID Type)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.9. ST-7111 (Expansion Power Supply, Input 24Vdc, Output 1.0A/5Vdc)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.10. ST-7511 (Expansion Power Supply, Input 24Vdc, Output 1.0A/5Vdc, ID Type)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.11. ST-7241 (Field Distributor, 5Vdc/24Vdc/48Vdc/110Vac/220Vac)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

1.6.12. ST-7641 (Field Distributor, 5Vdc/24Vdc/48Vdc/110Vac/220Vac, ID Type)

- ☐ Valid Parameter length: 0 byte
- ☐ Parameter Data: All of Parameter Data is not used.

2. Memory Register

2.1. Digital Input Module

2.1.1. ST-1114 (4-sinking input, 5Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.2. ST-111F (16-sinking input, 5Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.3. ST-1124 (4-sourcing input, 5Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.4. ST-112F (16-sourcing input, 5Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.5. ST-1214 (4-sinking input, 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.6. ST-1218 (8-sinking input, 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.7. ST-121F (16-sinking input, 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.8. ST-1224 (4-sourcing input, 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.9. ST-1228 (8-sourcing input, 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.10. ST-122F (16-sourcing input, 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.11. ST-1314 (4-sinking input, 48Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.12. ST-131F (16-sinking input, 48Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.13. ST-1324 (4-sourcing input, 48Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.14. ST-132F (16-sourcing input, 48Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.15. ST-1804 (4-ac input, 110Vac)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.1.16. ST-1904 (4-ac input, 220Vac)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2. Digital Output Module

2.2.1. ST-2114 (4-TTL Inverting output, 5Vdc 20mA)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.2. ST-2124 (4-TTL Non-Inverting output, 5Vdc 20mA)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.3. ST-221F (16-sinking output, 24Vdc 0.1A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.4. ST-222F (16-sourcing output, 24Vdc 0.1A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.5. ST-2314 (4-sinking output, 24Vdc 0.5A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.6. ST-2318 (8-sinking output, 24Vdc 0.5A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.7. ST-2324 (4-sourcing output, 24Vdc 0.5A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.8. ST-2328 (8-sourcing output, 24Vdc 0.5A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.9. ST-2414 (4-sinking output, Diag, 24Vdc 0.5A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.10. ST-2424 (4-sourcing output, Diag, 24Vdc 0.5A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.11. ST-2514 (4-sinking output, Diag, 24Vdc 2A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.12. ST-2524 (4-sourcing output, Diag, 24Vdc 2A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.13. ST-2614 (4-sinking output, 24Vdc 2A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.14. ST-2624 (4-sourcing output, 24Vdc 2A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.15. ST-2742 (2-relay output, 230Vac 2A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.16. ST-2744 (4-relay output, 230Vac 2A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.17. ST-2748 (8-relay output, 230Vac 2A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.18. ST-2792 (2-relay output, 230Vac 2A, Manual Type)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.19. ST-2852 (2-triac output, 120Vac 0.5A)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.20. ST-2924 (4-output, AC/DC 24V 2A) **NEW**

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.21. ST-2944 (4-output, AC/DC 24V 2A) **NEW**

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.2.22. ST-2734 (4-output, AC/DC 24V/110V/220V 0.5A) **NEW**

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3. Analog Input Module

2.3.1. ST-3114 (4-current analog input, 0~20mA, 12bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-03	Channel 0 Input Data High 4 bits	
		04-07	not used	0
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-03	Channel 1 Input Data High 4 bits	
		04-07	not used	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-03	Channel 2 Input Data High 4 bits	
		04-07	not used	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-03	Channel 3 Input Data High 4 bits	
		04-07	not used	0
8	R	00-07	Reserved	0
9	R	00-07	Reserved	0

2.3.2. ST-3118 (8-current analog input, 0~20mA, 12bit)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.3. ST-3134 (4-current analog input, 0~20mA, 14bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-05	Channel 0 Input Data High 6 bits	
		06-07	not used	0
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-05	Channel 1 Input Data High 6 bits	
		06-07	not used	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-05	Channel 2 Input Data High 6 bits	
		06-07	not used	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-05	Channel 3 Input Data High 6 bits	
		06-07	not used	0
8	R	00-07	Reserved	0
9	R	00-07	Reserved	0

2.3.4. ST-3214 (4-current analog input, 4~20mA, 12bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-03	Channel 0 Input Data High 4 bits	
		04-07	not used	0
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-03	Channel 1 Input Data High 4 bits	
		04-07	not used	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-03	Channel 2 Input Data High 4 bits	
		04-07	not used	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-03	Channel 3 Input Data High 4 bits	
		04-07	not used	0
8	R	00-03	Alarm Status Bit for individual channels - Bit 00 corresponds to input channel 0, bit 01 corresponds to input channel 1, and so on. When set (1), the input signal is below the input channel's minimum range (3mA). And Input Data will be 0x8000(-32678)	
		04-07	Reserved	0
9	R	00-07	Reserved	0

2.3.5. ST-3218 (8-current analog input, 4~20mA, 12bit)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.6. ST-3234 (4-current analog input, 4~20mA, 14bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-05	Channel 0 Input Data High 6 bits	
		06, 07	not used	0
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-05	Channel 1 Input Data High 6 bits	
		06, 07	not used	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-05	Channel 2 Input Data High 6 bits	
		06, 07	not used	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-05	Channel 3 Input Data High 6 bits	
		06, 07	not used	0
8	R	00-03	Alarm Status Bit for individual channels - Bit 00 corresponds to input channel 0, bit 01 corresponds to input channel 1, and so on. When set (1), the input signal is below the input channel's minimum range (3mA). And Input Data will be 0x8000(-32678)	
		04-07	Reserved	0
9	R	00-07	Reserved	0

2.3.7. ST-3424 (4-voltage analog input, 0~10V, 12bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-03	Channel 0 Input Data High 4 bits	
		04-07	not used	0
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-03	Channel 1 Input Data High 4 bits	
		04-07	not used	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-03	Channel 2 Input Data High 4 bits	
		04-07	not used	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-03	Channel 3 Input Data High 4 bits	
		04-07	not used	0
8	R	00-07	Reserved	0
9	R	00-07	Reserved	0

2.3.8. ST-3428 (8-voltage analog input, 0~10V, 12bit)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.9. ST-3444 (4-voltage analog input, 0~10V, 14bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-05	Channel 0 Input Data High 6 bits	
		06-07	not used	0
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-05	Channel 1 Input Data High 6 bits	
		06-07	not used	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-05	Channel 2 Input Data High 6 bits	
		06-07	not used	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-05	Channel 3 Input Data High 6 bits	
		06-07	not used	0
8	R	00-07	Reserved	0
9	R	00-07	Reserved	0

2.3.10. ST-3474 (4-voltage analog input, 0~10V, 12bit, Sensor Connector)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.11. ST-3524 (4-voltage analog input, -10~10V, 12bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-06	Channel 0 Input Data High 7 bits	
		07	Sign Bit	
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-06	Channel 1 Input Data High 7 bits	
		07	Sign Bit	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-06	Channel 2 Input Data High 7 bits	
		07	Sign Bit	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-06	Channel 3 Input Data High 7 bits	
		07	Sign Bit	0
8	R	00-07	Reserved	0
9	R	00-07	Reserved	0

2.3.12. ST-3544 (4-voltage analog input, -10~10V, 14bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-06	Channel 0 Input Data High 7 bits	
		07	Sign Bit	
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-06	Channel 1 Input Data High 7 bits	
		07	Sign Bit	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-06	Channel 2 Input Data High 7 bits	
		07	Sign Bit	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-06	Channel 3 Input Data High 7 bits	
		07	Sign Bit	0
8	R	00-07	Reserved	0
9	R	00-07	Reserved	0

2.3.13. ST-3624 (4-voltage analog input, 0~5V, 12bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-03	Channel 0 Input Data High 4 bits	
		04-07	not used	0
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-03	Channel 1 Input Data High 4 bits	
		04-07	not used	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-03	Channel 2 Input Data High 4 bits	
		04-07	not used	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-03	Channel 3 Input Data High 4 bits	
		04-07	not used	0
8	R	00-07	Reserved	0
9	R	00-07	Reserved	0

2.3.14. ST-3644 (4-voltage analog input, 0~5V, 14bit)

- ☐ Memory Register length: 10 byte
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-05	Channel 0 Input Data High 6 bits	
		06, 07	not used	0
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-05	Channel 1 Input Data High 6 bits	
		06, 07	not used	0
4	R	00-07	Channel 2 Input Data Low 8 bits	
5	R	00-05	Channel 2 Input Data High 6 bits	
		06, 07	not used	0
6	R	00-07	Channel 3 Input Data Low 8 bits	
7	R	00-05	Channel 3 Input Data High 6 bits	
		06, 07	not used	0
8	R	00-07	Reserved	0
9	R	00-07	Reserved	0

2.3.15. ST-3702 (2- RTD/Resistance input)

- ☐ Memory Register length: 8 bytes
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-06	Channel 0 Input Data High 7 bits	
		07	Sign Bit	
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-06	Channel 1 Input Data High 7 bits	
		07	Sign Bit	
4	R	00-07	Sensor Type (same as ST-3702 Configuration Parameter)	0
5	R	00-07	Temperature Type (same as ST-3702 Configuration Parameter)	0
6	R	00, 01	Alarm Status Bit for individual channels - Bit 00 corresponds to input channel 0, bit 01 corresponds to input channel 1. When set (1), the input signal is below the input channel's minimum range or above the input channel's maximum range. And Input Data will be 0x8000(-32678)	
		02-07	Reserved	0
7	R	00-07	Reserved	

* Offset 4, 5: All values are not stored in Adapter's EEPROM.

2.3.16. ST-3704 (4- RTD/Resistance input)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.17. ST-3708 (8- RTD/Resistance input)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.18. ST-3714 (4- RTD/Temperature Controller, SSR)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.19. ST-3734 (4- RTD/ Temperature Controller)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.20. ST-3802 (2- Thermocouple/mV input)

- ☐ Memory Register length: 12 bytes
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Input Data Low 8 bits	
1	R	00-06	Channel 0 Input Data High 7 bits	
		07	Sign Bit	
2	R	00-07	Channel 1 Input Data Low 8 bits	
3	R	00-06	Channel 1 Input Data High 7 bits	
		07	Sign Bit	
4	R	00-07	Sensor Type (same as ST-3802 Configuration Parameter)	0
5	R	00-07	Temperature Type (same as ST-3802 Configuration Parameter)	0
6	R	00, 01	Alarm Status Bit for individual channels - Bit 00 corresponds to input channel 0, bit 01 corresponds to input channel 1. When set (1), the input signal is below the input channel's minimum range or above the input channel's maximum range. And Input Data will be 0x8000(-32678)	
		02-07	Reserved	0
7	R	00, 01	Burn-Out Bit for individual channels - Bit 00 corresponds to input channel 0, bit 01 corresponds to input channel 1. When set (1), the input channel is burn-out. And Input Data will be 0x8000(-32678)	
		02-07	Reserved	0
8	R	00-07	Cold Junction Low 8 bits	
9	R	00-07	Cold Junction High 8 bits	
10	R	00-07	Cold Junction Offset Low 8 bits	
11	R	00-07	Cold Junction Offset High 8 bits	

* Offset 4, 5, 10, 11: All values are not stored in Adapter's EEPROM.

2.3.21. ST-3804 (4- Thermocouple/mV input)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.22. ST-3808 (8- Thermocouple/mV input)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.23. ST-3814 (4- TC, Temperature Controller, SSR)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.24. ST-3834 (4- TC, Temperature Controller)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.3.25. ST-3901 (3Phase, AC Measurement, 500V/2A AC) **NEW**

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.4. Analog Output Module

2.4.1. ST-4112 (2-current analog output, 0~20mA, 12bit)

- ☐ Memory Register length: 12 bytes
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Output Data Low 8 bits	0
1	R	00-03	Channel 0 Output Data High 4 bits	0
		04-07	not used	0
2	R	00-07	Channel 1 Output Data Low 8 bits	0
3	R	00-03	Channel 1 Output Data High 4 bits	0
		04-07	not used	0
4	R	00-07	Reserved	0
5	R	00-07	Reserved	0
6	R	00-07	Fault Action	0
7	R	00-07	Reserved	0
8	R	00-07	Channel 0 Fault Value Low Byte	0
9	R	00-07	Channel 0 Fault Value High Byte	0
10	R	00-07	Channel 1 Fault Value Low Byte	0
11	R	00-07	Channel 1 Fault Value High Byte	0

* Offset 6-11: All values are not stored in Adapter's EEPROM.

2.4.2. ST-4114 (4-current analog output, 0~20mA, 12bit)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.4.3. ST-4212 (2-current analog output, 4~20mA, 12bit)

- ☐ Memory Register length: 12 bytes
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Output Data Low 8 bits	0
1	R	00-03	Channel 0 Output Data High 4 bits	0
		04-07	not used	0
2	R	00-07	Channel 1 Output Data Low 8 bits	0
3	R	00-03	Channel 1 Output Data High 4 bits	0
		04-07	not used	0
4	R	00-07	Reserved	0
5	R	00-07	Reserved	0
6	R	00-07	Fault Action	0
7	R	00-07	Reserved	0
8	R	00-07	Channel 0 Fault Value Low Byte	0
9	R	00-07	Channel 0 Fault Value High Byte	0
10	R	00-07	Channel 1 Fault Value Low Byte	0
11	R	00-07	Channel 1 Fault Value High Byte	0

* Offset 6-11: All values are not stored in Adapter's EEPROM.

2.4.4. ST-4214 (4-current analog output, 4~20mA, 12bit)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.4.5. ST-4274 (4-current analog output, 4~20mA, 12bit, Sensor Connector)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.4.6. ST-4422 (2-voltage analog output, 0~10Vdc, 12bit)

- ☐ Memory Register length: 12 bytes
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Output Data Low 8 bits	0
1	R	00-03	Channel 0 Output Data High 4 bits	0
		04-07	not used	0
2	R	00-07	Channel 1 Output Data Low 8 bits	0
3	R	00-03	Channel 1 Output Data High 4 bits	0
		04-07	not used	0
4	R	00-07	Reserved	0
5	R	00-07	Reserved	0
6	R	00-07	Fault Action	0
7	R	00-07	Reserved	0
8	R	00-07	Channel 0 Fault Value Low Byte	0
9	R	00-07	Channel 0 Fault Value High Byte	0
10	R	00-07	Channel 1 Fault Value Low Byte	0
11	R	00-07	Channel 1 Fault Value High Byte	0

* Offset 6-11: All values are not stored in Adapter's EEPROM.

2.4.7. ST-4424 (4-voltage analog output, 0~10Vdc, 12bit)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.4.8. ST-4474 (4-voltage analog output, 0~10Vdc, 12bit, Sensor Connector)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.4.9. ST-4491 (1-voltage analog output, 0~10Vdc, 12bit, Manual Type)

- ☐ Memory Register length: 12 bytes
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Output Data Low 8 bits	0
1	R	00-03	Channel 0 Output Data High 4 bits	0
		04-07	not used	0
2	R	00-07	Reserved	0
3	R	00-03	Reserved	0
4	R	00-07	Reserved	0
5	R	00-07	Reserved	0
6	R	00-07	Fault Action	0
7	R	00-07	Reserved	0
8	R	00-07	Channel 0 Fault Value Low Byte	0
9	R	00-07	Channel 0 Fault Value High Byte	0
10	R	00-07	Reserved	0
11	R	00-07	Reserved	0

2.4.10. ST-4522 (2-voltage analog output, -10~10Vdc, 12bit)

☐ Memory Register length: 12 bytes☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Output Data Low 8 bits	0
1	R	00-07	Channel 0 Output Data High 8 bits	0
2	R	00-07	Channel 1 Output Data Low 8 bits	0
3	R	00-07	Channel 1 Output Data High 8 bits	0
4	R	00-07	Reserved	0
5	R	00-07	Reserved	0
6	R	00-07	Fault Action	0
7	R	00-07	Reserved	0
8	R	00-07	Channel 0 Fault Value Low Byte	0
9	R	00-07	Channel 0 Fault Value High Byte	0
10	R	00-07	Channel 1 Fault Value Low Byte	0
11	R	00-07	Channel 1 Fault Value High Byte	0

* Offset 6-11: All values are not stored in Adapter's EEPROM.

2.4.11. ST-4622 (2-voltage analog output, 0~5Vdc, 12bit)

☐ Memory Register length: 12 bytes☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Channel 0 Output Data Low 8 bits	0
1	R	00-03	Channel 0 Output Data High 4 bits	0
		04-07	not used	0
2	R	00-07	Channel 1 Output Data Low 8 bits	0
3	R	00-03	Channel 1 Output Data High 4 bits	0
		04-07	not used	0
4	R	00-07	Reserved	0
5	R	00-07	Reserved	0
6	R	00-07	Fault Action	0
7	R	00-07	Reserved	0
8	R	00-07	Channel 0 Fault Value Low Byte	0
9	R	00-07	Channel 0 Fault Value High Byte	0
10	R	00-07	Channel 1 Fault Value Low Byte	0
11	R	00-07	Channel 1 Fault Value High Byte	0

* Offset 6-11: All values are not stored in Adapter's EEPROM.

2.4.12. ST-4911 (1-currunt analog output, 0~1A, 12bit)

☐ Memory Register length: 0 byte☐ Memory Register: none

2.5. Special Module

2.5.1. ST-5101 (1 Channel High Speed Counter 5Vdc)

- ☐ Memory Register length: 24 bytes
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Current count value Low byte	0
1	R	00-07	Current count value Middle byte	0
2	R	00-07	Current count value High byte	0
3	R	00-07	Always 0	0
4	R	00-07	Status Low (compared flags)	0
5	R	00-07	Status High (same as LED display)	0
6	R	00-07	Output Terminal (OT) Control	0
7	R	00-07	SSR(Special Selection Register)	0
8	R	00-07	Gate Function/Counter Mode (Same as 2.4.2)	0
9	R	00-07	Gate Sampling Time/Input Filter (Same as 2.4.2)	0
10	R	00-07	Don't care	0
11	R	00-07	Don't care	0
12	R	00-07	Stored count value Low byte	0
13	R	00-07	Stored count value Middle byte	0
14	R	00-07	Stored count value High byte	0
15	R	00-07	Always 0	0
16	R	00-07	Initial Counter Value Low byte (Initial counter or PWM Frequency value)	0
17	R	00-07	Initial Counter Value Middle byte (Initial counter or PWM Frequency value)	0
18	R	00-07	Initial count value High byte (Initial counter or PWM Frequency value)	0
19	R	00-07	Always 0	0
20	R	00-07	Compare count value Low byte	0
21	R	00-07	Compare count value Middle byte	0
22	R	00-07	Compare count value High byte	0
23	R	00-07	Always 0	0

* Offset 8-9: All values are not stored in Adapter's EEPROM.

2.5.2. ST-5111 (1 Channel High Speed Counter 24Vdc)

- ☐ Memory Register length: 24 bytes
- ☐ Memory Register:

Offset	Access	Decimal Bit	Description	Default Value
0	R	00-07	Current count value Low byte	0
1	R	00-07	Current count value Middle byte	0
2	R	00-07	Current count value High byte	0
3	R	00-07	Always 0	0
4	R	00-07	Status Low (compared flags)	0
5	R	00-07	Status High (same as LED display)	0
6	R	00-07	Output Terminal (OT) Control	0
7	R	00-07	SSR(Special Selection Register)	0
8	R	00-07	Gate Function/Counter Mode (Same as 2.4.2)	0
9	R	00-07	Gate Sampling Time/Input Filter (Same as 2.4.2)	0
10	R	00-07	Don't care	0
11	R	00-07	Don't care	0
12	R	00-07	Stored count value Low byte	0
13	R	00-07	Stored count value Middle byte	0
14	R	00-07	Stored count value High byte	0
15	R	00-07	Always 0	0
16	R	00-07	Initial Counter Value Low byte (Initial counter or PWM Frequency value)	0
17	R	00-07	Initial Counter Value Middle byte (Initial counter or PWM Frequency value)	0
18	R	00-07	Initial count value High byte (Initial counter or PWM Frequency value)	0
19	R	00-07	Always 0	0
20	R	00-07	Compare count value Low byte	0
21	R	00-07	Compare count value Middle byte	0
22	R	00-07	Compare count value High byte	0
23	R	00-07	Always 0	0

* Offset 8-9: All values are not stored in Adapter's EEPROM.

2.5.3. ST-5112 (2 Channel High Speed Counter 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.4. ST-5114 (4 Channel High Speed Counter 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.5. ST-5211 (1 Channel Serial Interface RS-232)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.6. ST-5212 (2 Channel Serial Interface RS-232)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.7. ST-5221 (1 Channel Serial Interface RS-422)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.8. ST-5231 (1 Channel Serial Interface RS-485)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.9. ST-5232 (2 Channel Serial Interface RS-485)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.10. ST-5252 (2 Channel Serial Interface RS-232, Premium Type) **Coming Soon**

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.11. ST-5272 (2 Channel Serial Interface RS-485, Premium Type) **Coming Soon**

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.12. ST-5351 (1 Channel SSI Interface)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.13. ST-5422 (2 Channel PWM Output, 1.5A/24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.14. ST-5442 (2 Channel PWM Output, 0.5A/24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.15. ST-5444 (4 Channel PWM Output, 0.5A/24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.16. ST-5641 (1 Channel Pulse Output, 0.5A/24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.17. ST-5642 (2 Channel Pulse Output, 0.5A/24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.18. ST-5651 (1 Channel Pulse Output, RS-422)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.19. ST-5725 (Extension Function IO, Master)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.5.20. ST-5726 (Extension Function IO, Slave)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6. Power Module

2.6.1. ST-7008 (Shield Module)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.2. ST-7108 (Common, 0Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.3. ST-7118 (Common, 24Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.4. ST-7188 (Common, 24Vdc/0Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.5. ST-7408 (Shield Module, ID Type)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.6. ST-7508 (Common, 0Vdc, ID Type)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.7. ST-7518 (Common, 24Vdc, ID Type)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.8. ST-7588 (Common, 24Vdc/0Vdc, ID Type)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.9. ST-7111 (Expansion Power Supply, Input 24Vdc, Output 1.0A/5Vdc)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.10. ST-7511 (Expansion Power Supply, Input 24Vdc, Output 1.0A/5Vdc, ID Type)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.11. ST-7241 (Field Distributor, 5Vdc/24Vdc/48Vdc/110Vac/220Vac)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none

2.6.12. ST-7641 (Field Distributor, 5Vdc/24Vdc/48Vdc/110Vac/220Vac, ID Type)

- ☐ Memory Register length: 0 byte
- ☐ Memory Register: none