

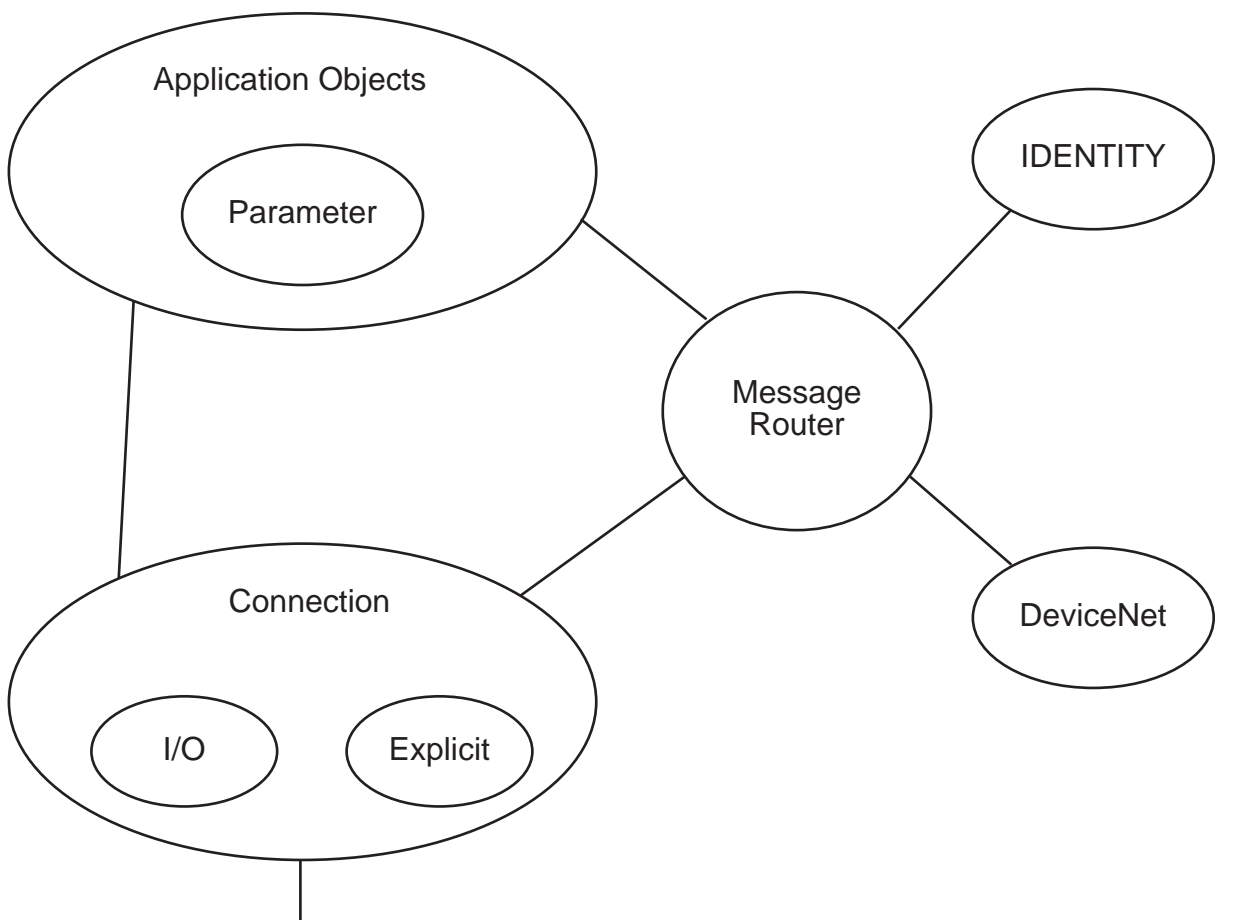
**INSTALLATION AND
OPERATION MANUAL**Software version: **1.0x**code: **80402 - 0306 - ENGLISH****INDEX**

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1 • Basic I/O Slave Device Protocol

- General data Compatible DeviceNet Specifications: Volume I - Release 2.0 Volume II - Release 2.0
- Header name: Gefran spa
- Corporation Header ID = 949
- Device protocol name Slaves: Generic
- Protocol number = 0
- Manufacturer revision: 1.1
- MAC ID setting: DIP switch (1 to 63)
- Default baud: 125 kbps
- Baud rate setting by Rotary Switches X10,X1: Yes
- Supported baud rates 125 kbps, 250 kbps, and 500 kbps
- Predefined Master/Slave connection set Group 2 only server
- Dynamic connection support: None
- Explicit message fragmentation support: Yes
- 8 bits Class ID / 8 bits Instance ID

2 • Basic I/O Object Module



3 • Object Description

3.1 • Identity Object (0x01)

Object class	Attributes	Not supported
	Service	Not supported

Item		ID Contents	Get (Read)	Set (write)	Value
Object instance	Attributes	1 Vendor	Yes	No	949
		2 Product type	Yes	No	0
		3 Product code	Yes	No	1
		4 Revision	Yes	No	1.1
		5 Status	Yes	No	---
		6 Serial number	Yes	No	Unique for Unit
		7 Product Name	Yes	No	GFX4 DEVICENET
		10 Heartbeat interval	Yes	No	0

Item		DeviceNet service	Option
Object	Services	05 Reset	
		0E Get_Attribute_Single	
		10 Set_Attribute_Single	

3.2 • Message Router Object (0x02)

Object class	Attributes	Not supported
	Services	Not supported
Object instance	Attributes	Not supported
	Services	Not supported

3.3 • DeviceNet Object (0x03)

Item		ID	Get	Set	Value
Object instance	Attributes	1 Revision	Yes	No	2
	Services	Not supported			

Item		ID	Get	Set	Value
Object instance	Attributes	1 MAC ID	Yes	No	1 to 63
		2 Baud rate	Yes	Yes	0,1,2
		3 BOI	Yes	No	
		4 Bus off cntr	Yes	Yes	0
		5 Allocation information	Yes		See table A

Item		DeviceNet service	Option
Object instance	Services	0E Get_Attribute_Single	
		10 Set_Attribute_single	
		4B Allocate_Master/Slave_Connection_Set	
		4C Release_Master/Slave_Connection_Set	

3.4 • Table A: allocation Selection Byte

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0
Reserved	Acknowledge Suppression	Cyclic	Change of State	Multicast Polling	Bit Strobed	Polled	Explicit Message

3.5 • Assembly Object (0x04)

Object class	Attributes	Not supported
	Service	Not supported

Item	ID	Get	Set	Option
Object instance	Attributes	3 Data	Yes	No

Item	DeviceNet service	Option
Object instance	Services	0E Get_Attribute_Single
		10 Set_Attribute_Single

3.6 • Connection Object (0x05)

Object class	Attributes	Not supported
	Services	Not supported
	Max. number of active connections	1

Item	Section	Information	Number of interface
Object interface 1	Interface type	Explicit Message	1
	Production trigger	Cyclic	---
	Transport type	Server	---
	Transport class	3	---

Item	ID Contents	Get	Set	Value
Object interface 1	Attributes			
	1 State	Yes	No	---
	2 Instance type	Yes	No	00
	3 Transport class trigger	Yes	No	83 hex
	4 Produced connection ID	Yes	No	---
	5 Consumed connection ID	Yes	No	---
	6 Initial comm characteristics	Yes	No	21 hex
	7 Produced connection	Yes	No	18 hex
	8 Consumed connection	Yes	No	18 hex
	9 Expected packet rate	Yes	Yes	---
	12 Watchdog time-out action	Yes	No	1
	13 Produced connection path length	Yes	No	0
	14 Produced connection path	Yes	No	---
	15 Consumed connection path length	Yes	No	0
16 Consumed connection path	Yes	No	---	
17 Production inhibit time	Yes	Yes	0	

Item	DeviceNet service	Option
Object interface 1	Services	
	05 Reset	---
	0E Get_Attribute_Single	---
	10 Set_Attribute_Single	---

Item	Section	Information	Number of interface
Object interface 2	Interface type	Polled I/O	1
	Production trigger	Cyclic	---
	Transport type	Server	---
	Transport class	2	---

Item	ID Contents	Get	Set	Value
Object interface 2	Attributes			
	1 State	Yes	No	---
	2 Instance type	Yes	No	01
	3 Transport class trigger	Yes	No	82 hex
	4 Produced connection ID	Yes	No	---
	5 Consumed connection ID	Yes	No	---
	6 Initial comm characteristics	Yes	No	01 hex
	7 Produced connection	Yes	No	82 hex
	8 Consumed connection	Yes	No	80 hex
	9 Expected packet rate	Yes	Yes	---
	12 Watchdog time-out action	Yes	No	1
	13 Produced connection path length	Yes	No	0
	14 Produced connection path	Yes	No	---
	15 Consumed connection path length	Yes	No	0
16 Consumed connection path	Yes	No	---	
17 Production inhibit time	Yes	Yes	0	

Item	DeviceNet service	Option
Object interface 2	Services	
	05 Reset	---
	0E Get_Attribute_Single	---
	10 Set_Attribute_Single	---

4 • I/O Data Description

4.1 • Inside I/O Data Produce: size 130 bytes

Byte offset		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Notes
Byte 0 slave 0	1 st Produce variable	Process Value word (low byte)								See Parameter class (0xf) instance 1
Byte 1 slave 0		Process Value word (high byte)								
Byte 2 slave 0	2 nd Produce variable	Status word (low byte)								See Note 1
Byte 3 slave 0		Status word (high byte)								
Byte 4 slave 0	3 rd Produce variable	OUT POWER word (low byte)								See Parameter class (0xf) instance 9
Byte 5 slave 0		OUT POWER word (high byte)								
Byte 6 slave 0	4 th Produce variable	I.tA1on word (low byte)								See Parameter class (0xf) instance 7
Byte 7 slave 0		I.tA1on word (high byte)								
Byte 8 slave 1		Process Value (low byte)								See Parameter class (0xf) instance 1
Byte 9 slave 1		Process Value (high byte)								
Byte 10 slave 1		Status word (low byte)								Note 1
Byte 11 slave 1		Status word (high byte)								
Byte 12 slave 1		OUT POWER (low byte)								See Parameter class (0xf) instance 9
Byte 13 slave 1		OUT POWER (high byte)								
Byte 14 slave 1		I.tA1on (low byte)								See Parameter class (0xf) instance 7
Byte 15 slave 1		I.tA1on (high byte)								
Bytes from 16 ÷ 23 slave 2		Data Produce Slave 2								
Bytes from 24 ÷ 31 slave 3		Data Produce Slave 3								
Bytes from 32 ÷ 39 slave 4		Data Produce Slave 4								
Bytes from 40 ÷ 47 slave 5		Data Produce Slave 5								
Bytes from 48 ÷ 55 slave 6		Data Produce Slave 6								
Bytes from 56 ÷ 63 slave 7		Data Produce Slave 7								
Bytes from 64 ÷ 71 slave 8		Data Produce Slave 8								
Bytes from 72 ÷ 79 slave 9		Data Produce Slave 9								
Bytes from 80 ÷ 87 slave 10		Data Produce Slave 10								
Bytes from 88 ÷ 95 slave 11		Data Produce Slave 11								
Bytes from 96 ÷ 103 slave 12		Data Produce Slave 12								
Bytes from 104 ÷ 111 slave 13		Data Produce Slave 13								
Bytes from 112 ÷ 119 slave 14		Data Produce Slave 14								
Bytes from 120 ÷ 127 slave 15		Data Produce Slave 15								
Byte 128 (active slaves)		Slave present from 0 to 7								Note 2
Byte 129 (active slaves)		Slave present from 8 to 15								

Note 1:

The Parameter Class (0xf) instance 172 defines instrument work status by means of the following bits:

0. Alarm AL1 or AL2 or AL3 or AL4 or ALHB active
1. Alarm Lo active (process variable value < min. limit "Lo.S")
2. Alarm Hi active (process variable value > max. limit "Hi.S")
3. Alarm ERR active (third wire interrupted due to PT100 or incorrect CT connection)
4. Alarm SBR active (probe interrupted)
5. Controller heating (HEAT)
6. Controller cooling (COOL)
7. Alarm LBA active (control loop error)
8. Alarm AL1 active
9. Alarm AL2 active
10. Alarm AL3 active
11. Alarm AL4 active
12. Alarm ALHB active
13. Controller in software shutdown (OFF)
14. Controller in manual (MAN)
15. Controller in remote Setpoint (REM)

Note 2:

Value Bit = 0 (slave not active)

Value Bit = 1 (slave active)

Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Offset
Slave 7	Slave 6	Slave 5	Slave 4	Slave 3	Slave 2	Slave 1	Slave 0	80

Bit 15	Bit 14	Bit 13	Bit 12	Bit 11	Bit 10	Bit 9	Bit 8	Offset
Slave 15	Slave 14	Slave 13	Slave 12	Slave 11	Slave 10	Slave 9	Slave 8	81

4.2 • Inside I/O Data Consume: size 128 bytes

Byte offset		Bit 7	Bit 6	Bit 5	Bit 4	Bit 3	Bit 2	Bit 1	Bit 0	Notes
Byte 0 slave 0	1 st output	Operating commands (low byte)								See Parameter class (0xf) instance 25 (See note 3)
Byte 1 slave 0	variable	Operating commands (high byte)								
Byte 2 slave 0	2 nd consume	Alarm 2 setpoint (low byte)								See Parameter class (0xf) instance 20
Byte 3 slave 0	variable	Alarm 2 setpoint (high byte)								
Byte 4 slave 0	3 rd consume	Set Point (low byte)								See Parameter class (0xf) instance 3
Byte 5 slave 0	variable	Set Point (high byte)								
Byte 6 slave 0	4 th consume	Alarm 1 setpoint (low byte)								See Parameter class (0xf) instance 19
Byte 7 slave 0	variable	Alarm 1 setpoint (high byte)								
Bytes from 8 ÷ 15 slave 1		Data consume (Slave 1)								
Bytes from 16 ÷ 23 slave 2		Data consume (Slave 2)								
Bytes from 24 ÷ 31 slave 3		Data consume (Slave 3)								
Bytes from 32 ÷ 39 slave 4		Data consume (Slave 4)								
Bytes from 40 ÷ 47 slave 5		Data consume (Slave 5)								
Bytes from 48 ÷ 55 slave 6		Data consume (Slave 6)								
Bytes from 56 ÷ 63 slave 7		Data consume (Slave 7)								
Bytes from 64 ÷ 71 slave 8		Data consume (Slave 8)								
Bytes from 72 ÷ 79 slave 9		Data consume (Slave 9)								
Bytes from 80 ÷ 87 slave 10		Data consume (Slave 10)								
Bytes from 88 ÷ 95 slave 11		Data consume (Slave 11)								
Bytes from 96 ÷ 103 slave 12		Data consume (Slave 12)								
Bytes from 104 ÷ 111 slave 13		Data consume (Slave 13)								
Bytes from 112 ÷ 119 slave 14		Data consume (Slave 14)								
Bytes from 120 ÷ 127 slave 15		Data consume (Slave 15)								

Note 3:

The Parameter Class (0xf) instance 25 defines instrument work command by means of the following bits:

- Bit 0** not used
- Bit 1** SP1/SP2 (set point selection SP1 = 0, SP2 = 1)
- Bit 2** start/stop selftuning (start = 1, stop = 0)
- Bit 3** ON/OFF controller (ON = 0, OFF = 1)
- Bit 4** AUTO/MANUAL controller (AUTO = 0, MANUAL = 1)
- Bit 5** start/stop autotuning (start = 0, stop = 1)
- Bit 6** LOCAL/REMOTE Set point (LOCAL = 0, REMOTE = 1)
- Bit 7** not used
- Bit 8** not used
- Bit 9** not used
- Bit 10** not used
- Bit 11** not used
- Bit 12** not used
- Bit 13** not used
- Bit 14** not used
- Bit 15** not used

4.3 • Parameter Object (0x0f)

Item		ID	Get	Set	Value
Object class	Attributes	2 Max Instance	Yes	No	FF hex
		8 Parameter Class parameters	Yes	No	9
		9 Configuration assembly Instance	Yes	No	0
	Services	0E Get_Attribute_Single	---	---	---

Item		ID Contents	Get (Read)	Set (Write)	Value
Object Instance (from 1 to Max	Attributes	1 Parameter Value	Yes	Yes	See Instances Description
		2 Link path size	Yes	No	
		3 Link path	Yes	No	
		4 Descriptor	Yes	No	
		5 Data type	Yes	No	
		6 Data size	Yes	No	

Item		DeviceNet service	Option
Object Instance (from 1 to Max Instance)	Services	0E Get_Attribute_Single	---
		10 Set_Attribute_Single	---

Item		Vendor Specific service	Option
Object Instance (from 1 to Max Instance)	Services	3E Get_ParamVal_Slave	---
		40 Set_ParamVal_Slave	---

Vendor Specific service 3E Get_ParamVal_Slave Request		Comment
Byte 0	MAC ID	
Byte 1	Service code [3E]	
Byte 2	Class ID [f]	
Byte 3	Instance ID [1 to Max Instance]	
Byte 4	Attribute [1]	
Byte 5	Slave Number [0 to 9]	

Vendor Specific service 3E Get_ParamVal_Slave Response normal		Comment
Byte 0	MAC ID	Data read byte number depend on Object instance attribute id 6 (Data size)
Byte 1	Service code [BE]	
Byte 2	Data read byte 1	
Byte 3	Data read byte 2	

Vendor Specific service Get_ParamVal_Slave Response error		Comment
Byte 0	MAC ID	
Byte 1	Service code [94]	
Byte 2	DeviceNet error code	
Byte 3	DeviceNet error code	

Vendor Specific service 40 Set_ParamVal_Slave Request		Comment
Byte 0	MAC ID	Data write byte number depend on Object instance attribute id 6 (Data size)
Byte 1	Service code [40]	
Byte 2	Class ID [f]	
Byte 3	Instance ID [1 to Max Instance]	
Byte 4	Attribute ID [1]	
Byte 5	Slave Number [0 to 9]	
Byte 6	Data write byte 1	
Byte 7	-	

Vendor Specific service 40 Get_ParamVal_Slave Response normal		Comment
Byte 0	MAC ID	
Byte 1	Service code [C0]	

Vendor Specific service Set_ParamVal_Slave Response normal		Comment
Byte 0	MAC ID	
Byte 1	Service code [94]	
Byte 2	DeviceNet error code	
Byte 3	DeviceNet error code	

5 • Instances Description List

INSTANCE 1

GFX4 Function: **PV**
Description: Process Value mod
Link Path Size = 6
Link Path = 20 0F 24 01 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 0 (decimal)

INSTANCE 2

GFX4 Function: **SPA**
Description: Setpoint Active
Link Path Size = 6
Link Path = 20 0F 24 02 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 1 (decimal)

INSTANCE 3

GFX4 Function: **_SP**
Description: Local set point
Link Path Size = 6
Link Path = 20 0F 24 03 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 138 (decimal)

INSTANCE 4

GFX4 Function: **SP1**
Description: Set point 1
Link Path Size = 6
Link Path = 20 0F 24 04 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 230 (decimal)

INSTANCE 5

GFX4 Function: **SP2**
Description: Set point 2
Link Path Size = 6
Link Path = 20 0F 24 05 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 231 (decimal)

INSTANCE 6

GFX4 Function: **SPrS**
Description: Serial remote setpoint
Link Path Size = 6
Link Path = 20 0F 24 06 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 250 (decimal)

INSTANCE 7

GFX4 Function: **I.tA1on**
Description: Current transformer value
Link Path Size = 6
Link Path = 20 0F 24 07 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 468 (decimal)

INSTANCE 8

GFX4 Function: **I.tA1**
Description: Auxiliary input value
Link Path Size = 6
Link Path = 20 0F 24 08 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 227 (decimal)

INSTANCE 9

GFX4 Function: **Ou.P**
Description: Current value of control output
Link Path Size = 6
Link Path = 20 0F 24 09 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 2 (decimal)

INSTANCE 10

GFX4 Function: **I.tU1**
Description: Voltmeter input value phase 1
Link Path Size = 6
Link Path = 20 0F 24 0a 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 232 (decimal)

INSTANCE 11

GFX4 Function: **I.tU2**
Description: Voltmeter input value phase 2
Link Path Size = 6
Link Path = 20 0F 24 0b 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 492 (decimal)

INSTANCE 12

GFX4 Function: **I.tU3**
Description: Voltmeter input value phase 3
Link Path Size = 6
Link Path = 20 0F 24 0c 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 493 (decimal)

INSTANCE 13

GFX4 Function: **I.tA2on**
Description: Current transformer value
Link Path Size = 6
Link Path = 20 0F 24 0d 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 498 (decimal)

INSTANCE 14

GFX4 Function: **I.tA3on**
Description: Current transformer value
Link Path Size = 6
Link Path = 20 0F 24 0e 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 499 (decimal)

INSTANCE 15

GFX4 Function: **A.Hb1**
Description: Alarm HB setpoint phase 1
Link Path Size = 6
Link Path = 20 0F 24 0f 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 55 (decimal)

INSTANCE 16

GFX4 Function: **A.Hb2**
Description: Alarm HB setpoint phase 2
Link Path Size = 6
Link Path = 20 0F 24 10 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 502 (decimal)

INSTANCE 17

GFX4 Function: **A.Hb3**
Description: Alarm HB setpoint phase 3
Link Path Size = 6
Link Path = 20 0F 24 11 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 503 (decimal)

INSTANCE 18

GFX4 Function: **Ou.P**
Description: Control output value in manual
Link Path Size = 6
Link Path = 20 0F 24 12 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 252 (decimal)

INSTANCE 19

GFX4 Function: **AI.1**
Description: Alarm 1 setpoint
Link Path Size = 6
Link Path = 20 0F 24 13 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 12 (decimal)

INSTANCE 20

GFX4 Function: **AI.2**
Description: Alarm 2 setpoint
Link Path Size = 6
Link Path = 20 0F 24 14 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 13 (decimal)

INSTANCE 21

GFX4 Function: **AI.3**
Description: Alarm 3 setpoint
Link Path Size = 6
Link Path = 20 0F 24 15 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 14 (decimal)

INSTANCE 22

GFX4 Function: **AI.4**
Description: Alarm 4 setpoint
Link Path Size = 6
Link Path = 20 0F 24 16 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 58 (decimal)

INSTANCE 23

GFX4 Function: ---
Description: Process variable after Fld filter
Link Path Size = 6
Link Path = 20 0F 24 17 30 01
Descriptor: READ_ONLY_PARAM
Data type: INT
Modbus Address: 349 (decimal)

INSTANCE 24

GFX4 Function: ---
Description: Digital/relays status
Link Path Size = 6
Link Path = 20 0F 24 18 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 319 (decimal)

INSTANCE 25

GFX4 Function: --- (note 3)
Description: Operating commands instrument
STATUS_W
Link Path Size = 6
Link Path = 20 0F 24 19 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 305 (decimal)

INSTANCE 26

GFX4 Function: ---
Description: Digital inputs value IN_DIG
Link Path Size = 6
Link Path = 20 0F 24 1a 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 317 (decimal)

INSTANCE 27

GFX4 Function: **Upd**
Description: Software version
Link Path Size = 6
Link Path = 20 0F 24 1b 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 122 (decimal)

INSTANCE 28

GFX4 Function: **FUSE**
Description: Voltage on load
Link Path Size = 6
Link Path = 20 0F 24 1c 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 509 (decimal)

INSTANCE 29

GFX4 Function: **Err Self-diagnosis error code**
Description: Alarm 1 setpoint
Link Path Size = 6
Link Path = 20 0F 24 1d 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 85 (decimal)

INSTANCE 30

GFX4 Function: **C.Hd**
Description: Hardware configuration
Link Path Size = 6
Link Path = 20 0F 24 1e 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 190 (decimal)

INSTANCE 31

GFX4 Function: **C.Hd1**
Description: Expanded HW configuration
Link Path Size = 6
Link Path = 20 0F 24 1f 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 508 (decimal)

INSTANCE 32

GFX4 Function: **S.tu**
Description: Enable selftuning, autotuning
Link Path Size = 6
Link Path = 20 0F 24 20 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 31 (decimal)

INSTANCE 33

GFX4 Function: **h.Pb**
Description: Proportional heating band
Link Path Size = 6
Link Path = 20 0F 24 21 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 5 (decimal)

INSTANCE 34

GFX4 Function: **h.It**
Description: Integral heating time
Link Path Size = 6
Link Path = 20 0F 24 22 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 7 (decimal)

INSTANCE 35

GFX4 Function: **h.dt**
Description: Derivative heating time
Link Path Size = 6
Link Path = 20 0F 24 23 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 8 (decimal)

INSTANCE 36

GFX4 Function: **h.P.H**
Description: Max. limit heating power
Link Path Size = 6
Link Path = 20 0F 24 24 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 42 (decimal)

INSTANCE 37

GFX4 Function: **h.P.L**
Description: Min. limit heating power
Link Path Size = 6
Link Path = 20 0F 24 25 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 254 (decimal)

INSTANCE 38

GFX4 Function: **C.ME**
Description: Cooling fluid
Link Path Size = 6
Link Path = 20 0F 24 26 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 513 (decimal)

INSTANCE 39

GFX4 Function: **c.SP**
Description: Cooling setpoint relative to heating
Link Path Size = 6
Link Path = 20 0F 24 27 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 39 (decimal)

INSTANCE 40

GFX4 Function: **c.PB**
Description: Proportional cooling band
Link Path Size = 6
Link Path = 20 0F 24 28 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 6 (decimal)

INSTANCE 41

GFX4 Function: **c.lt**
Description: Integral cooling time
Link Path Size = 6
Link Path = 20 0F 24 29 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 76 (decimal)

INSTANCE 42

GFX4 Function: **c.dt**
Description: Derivative cooling time
Link Path Size = 6
Link Path = 20 0F 24 2a 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 77 (decimal)

INSTANCE 43

GFX4 Function: **riF**
Description: Reference voltage for manual
Link Path Size = 6
Link Path = 20 0F 24 2b 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 505 (decimal)

INSTANCE 44

GFX4 Function: **Cor**
Description: Manual power correction
Link Path Size = 6
Link Path = 20 0F 24 2c 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 506 (decimal)

INSTANCE 45

GFX4 Function: **c.P.H**
Description: Max. limit cooling power
Link Path Size = 6
Link Path = 20 0F 24 2d 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 43 (decimal)

INSTANCE 46

GFX4 Function: **c.P.L**
Description: Min. limit cooling power
Link Path Size = 6
Link Path = 20 0F 24 2e 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 255 (decimal)

INSTANCE 47

GFX4 Function: **rSt**
Description: Manual reset
Link Path Size = 6
Link Path = 20 0F 24 2f 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 78 (decimal)

INSTANCE 48

GFX4 Function: **P.rS**
Description: Reset Power
Link Path Size = 6
Link Path = 20 0F 24 30 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 516 (decimal)

INSTANCE 49

GFX4 Function: **ArS**
Description: Antireset
Link Path Size = 6
Link Path = 20 0F 24 31 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 79 (decimal)

INSTANCE 50

GFX4 Function: **FFd**
Description: Feedforward
Link Path Size = 6
Link Path = 20 0F 24 32 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 80 (decimal)

INSTANCE 51

GFX4 Function: **Sof**
Description: Softstart time
Link Path Size = 6
Link Path = 20 0F 24 33 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 147 (decimal)

INSTANCE 52

GFX4 Function: **Hy.1**
Description: Hysteresis for alarm 1
Link Path Size = 6
Link Path = 20 0F 24 34 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 27 (decimal)

INSTANCE 53

GFX4 Function: **Hy.2**
Description: Hysteresis for alarm 2
Link Path Size = 6
Link Path = 20 0F 24 35 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 30 (decimal)

INSTANCE 54

GFX4 Function: **Hy.3**
Description: Hysteresis for alarm 3
Link Path Size = 6
Link Path = 20 0F 24 36 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 53 (decimal)

INSTANCE 55

GFX4 Function: **Hy.4**
Description: Hysteresis for alarm 4
Link Path Size = 6
Link Path = 20 0F 24 37 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 59 (decimal)

INSTANCE 56

GFX4 Function: **Hb.t**
Description: Delay time HB alarm trip
Link Path Size = 6
Link Path = 20 0F 24 38 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 56 (decimal)

INSTANCE 57

GFX4 Function: **Lb.t**
Description: Delay time LBA alarm trip
Link Path Size = 6
Link Path = 20 0F 24 39 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 44 (decimal)

INSTANCE 58

GFX4 Function: **Lb.P**
Description: Limit for power supplied with LBA alarm
Link Path Size = 6
Link Path = 20 0F 24 3a 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 119 (decimal)

INSTANCE 59

GFX4 Function: **FA.P**
Description: Fault action power
Link Path Size = 6
Link Path = 20 0F 24 3b 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 228 (decimal)

INSTANCE 60

GFX4 Function: **G.SP**
Description: Set gradient
Link Path Size = 6
Link Path = 20 0F 24 3c 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 234 (decimal)

INSTANCE 61

GFX4 Function: **G.S2**
Description: Set gradient for SP2
Link Path Size = 6
Link Path = 20 0F 24 3d 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 259 (decimal)

INSTANCE 62

GFX4 Function: **PF.t**
Description: Power alarm intervention delay
Link Path Size = 6
Link Path = 20 0F 24 3e 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 260 (decimal)

INSTANCE 63

GFX4 Function: **b.St**
Description: Hot Runners stability band
Link Path Size = 6
Link Path = 20 0F 24 3f 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 261 (decimal)

INSTANCE 64

GFX4 Function: **b.PF**
Description: Hot Runners power alarm band
Link Path Size = 6
Link Path = 20 0F 24 40 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 262 (decimal)

INSTANCE 65

GFX4 Function: **SP.S**
Description: Hot Runners Set point soft start
Link Path Size = 6
Link Path = 20 0F 24 41 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 263 (decimal)

INSTANCE 66

GFX4 Function: **So.P**
Description: Hot Runners soft start power
Link Path Size = 6
Link Path = 20 0F 24 42 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 264 (decimal)

INSTANCE 67

GFX4 Function: **-At-**
Description: Actuator travel time
Link Path Size = 6
Link Path = 20 0F 24 43 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 238 (decimal)

INSTANCE 68

GFX4 Function: **t.Lo**
Description: Minimum power for valve activation
Link Path Size = 6
Link Path = 20 0F 24 44 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 239 (decimal)

INSTANCE 69

GFX4 Function: **t.Hi**
Description: Impulsive intervention threshold
Link Path Size = 6
Link Path = 20 0F 24 45 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 240 (decimal)

INSTANCE 70

GFX4 Function: **t.on**
Description: Minimum valve pulse time
Link Path Size = 6
Link Path = 20 0F 24 46 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 243 (decimal)

INSTANCE 71

GFX4 Function: **t.off**
Description: Valve impulsive intervention off time
Link Path Size = 6
Link Path = 20 0F 24 47 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 244 (decimal)

INSTANCE 72

GFX4 Function: **-db-**
Description: Dead Band
Link Path Size = 6
Link Path = 20 0F 24 48 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 241 (decimal)

INSTANCE 73

GFX4 Function: **Cod**
Description: Instrument ID serial code
Link Path Size = 6
Link Path = 20 0F 24 49 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 46 (decimal)

INSTANCE 74

GFX4 Function: **bAu**
Description: Instrument ID code
Link Path Size = 6
Link Path = 20 0F 24 4a 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 45 (decimal)

INSTANCE 75

GFX4 Function: **Par**
Description: Select Modbus baud rate
Link Path Size = 6
Link Path = 20 0F 24 4b 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 47 (decimal)

INSTANCE 76

GFX4 Function: **S.In**
Description: Input management from serial
Link Path Size = 6
Link Path = 20 0F 24 4c 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 224 (decimal)

INSTANCE 77

GFX4 Function: **S.Ou**
Description: Output management from serial
Link Path Size = 6
Link Path = 20 0F 24 4d 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 225 (decimal)

INSTANCE 78

GFX4 Function: **V_IN_OUT**
Description: Input/output value from serial in RAM
Link Path Size = 6
Link Path = 20 0F 24 4e 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 344 (decimal)

INSTANCE 79

GFX4 Function: **V_X_LEDS**
Description: LED value from serial in RAM
Link Path Size = 6
Link Path = 20 0F 24 4f 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 351 (decimal)

INSTANCE 80

GFX4 Function: **SP.r**
Description: Define remote Setpoint
Link Path Size = 6
Link Path = 20 0F 24 50 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 18 (decimal)

INSTANCE 81

GFX4 Function: **Typ**
Description: Input probe type
Link Path Size = 6
Link Path = 20 0F 24 51 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 400 (decimal)

INSTANCE 82

GFX4 Function: **tP.2**
Description: Auxiliary input probe type
Link Path Size = 6
Link Path = 20 0F 24 52 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 181 (decimal)

INSTANCE 83

GFX4 Function: **FIT**
Description: Digital input filter in seconds
Link Path Size = 6
Link Path = 20 0F 24 53 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 24 (decimal)

INSTANCE 84

GFX4 Function: **FId**
Description: Digital input filter in input scale points
Link Path Size = 6
Link Path = 20 0F 24 54 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 179 (decimal)

INSTANCE 85

GFX4 Function: **dP.S**
Description: Decimal point position for input scale
Link Path Size = 6
Link Path = 20 0F 24 55 30 01
Descriptor: READ_WRITE_PARAM
Data type: SINT
Modbus Address: 403 (decimal)

INSTANCE 86

GFX4 Function: **dP.S**
Description: Decimal point position for amper input
Link Path Size = 6
Link Path = 20 0F 24 56 30 01
Descriptor: READ_WRITE_PARAM
Data type: USINT
Modbus Address: 403 (decimal)

INSTANCE 87

GFX4 Function: **Lo.S**
Description: Min. limit input scale
Link Path Size = 6
Link Path = 20 0F 24 57 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 401 (decimal)

INSTANCE 88

GFX4 Function: **Hi.S**
Description: Max. limit input scale
Link Path Size = 6
Link Path = 20 0F 24 58 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 402 (decimal)

INSTANCE 89

GFX4 Function: **oFS**
Description: Input Offset correction
Link Path Size = 6
Link Path = 20 0F 24 59 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 519 (decimal)

INSTANCE 90

GFX4 Function: **ft.tA**
Description: Digital input filter CT in seconds
Link Path Size = 6
Link Path = 20 0F 24 5a 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 219 (decimal)

INSTANCE 91

GFX4 Function: **ft.tU**
Description: Digital input filter VT in seconds
Link Path Size = 6
Link Path = 20 0F 24 5b 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 412 (decimal)

INSTANCE 92

GFX4 Function: **H.tA1**
Description: Max. limit input CT scale phase 1
Link Path Size = 6
Link Path = 20 0F 24 5c 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 405 (decimal)

INSTANCE 93

GFX4 Function: **o.tA1**
Description: Input Offset correction CT phase 1
Link Path Size = 6
Link Path = 20 0F 24 5d 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 220 (decimal)

INSTANCE 94

GFX4 Function: **H.tA2**
Description: Max. limit input CT scale phase 2
Link Path Size = 6
Link Path = 20 0F 24 5e 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 413 (decimal)

INSTANCE 95

GFX4 Function: **o.tA2**
Description: Input Offset correction CT phase 2
Link Path Size = 6
Link Path = 20 0F 24 5f 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 415 (decimal)

INSTANCE 96

GFX4 Function: **H.tA3**
Description: Max. limit input CT scale phase 3
Link Path Size = 6
Link Path = 20 0F 24 60 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 414 (decimal)

INSTANCE 97

GFX4 Function: **o.tA3**
Description: Input Offset correction CT phase 3
Link Path Size = 6
Link Path = 20 0F 24 61 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 416 (decimal)

INSTANCE 98

GFX4 Function: **h.tU1**
Description: Max. limit input VT scale phase 1
Link Path Size = 6
Link Path = 20 0F 24 62 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 410 (decimal)

INSTANCE 99

GFX4 Function: **o.tU1**
Description: Input Offset correction VT phase 1
Link Path Size = 6
Link Path = 20 0F 24 63 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 411 (decimal)

INSTANCE 100

GFX4 Function: **h.tU2**
Description: Max. limit input VT scale phase 2
Link Path Size = 6
Link Path = 20 0F 24 64 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 417 (decimal)

INSTANCE 101

GFX4 Function: **o.tU2**
Description: Input Offset correction VT phase 2
Link Path Size = 6
Link Path = 20 0F 24 65 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 417 (decimal)

INSTANCE 102

GFX4 Function: **h.tU3**
Description: Max. limit input VT scale phase 3
Link Path Size = 6
Link Path = 20 0F 24 66 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 418 (decimal)

INSTANCE 103

GFX4 Function: **o.tU3**
Description: Input Offset correction VT phase 3
Link Path Size = 6
Link Path = 20 0F 24 67 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 420 (decimal)

INSTANCE 104

GFX4 Function: **G.tA2**
Description: Gain input CT phase 2
Link Path Size = 6
Link Path = 20 0F 24 68 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 529 (decimal)

INSTANCE 105

GFX4 Function: **G.tA3**
Description: Gain input CT phase 3
Link Path Size = 6
Link Path = 20 0F 24 69 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 530 (decimal)

INSTANCE 106

GFX4 Function: **Lo.L**
Description: Min. settable limit SP and alarms
Link Path Size = 6
Link Path = 20 0F 24 6a 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 25 (decimal)

INSTANCE 107

GFX4 Function: **Hi.L**
Description: Max. settable limit SP and alarms
Link Path Size = 6
Link Path = 20 0F 24 6b 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 26 (decimal)

INSTANCE 108

GFX4 Function: **LS.2**
Description: Min. limit auxiliary input
Link Path Size = 6
Link Path = 20 0F 24 6c 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 404 (decimal)

INSTANCE 109

GFX4 Function: **A1.r**
Description: Select magnitude ref. alarm 1
Link Path Size = 6
Link Path = 20 0F 24 6d 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 215 (decimal)

INSTANCE 110

GFX4 Function: **A2.r**
Description: Select magnitude ref. alarm 2
Link Path Size = 6
Link Path = 20 0F 24 6E 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 216 (decimal)

INSTANCE 111

GFX4 Function: **A3.r**
Description: Select magnitude ref. alarm 3
Link Path Size = 6
Link Path = 20 0F 24 6F 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 217 (decimal)

INSTANCE 112

GFX4 Function: **A4.r**
Description: Select magnitude ref. alarm 4
Link Path Size = 6
Link Path = 20 0F 24 70 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 218 (decimal)

INSTANCE 113

GFX4 Function: **a1.t**
Description: Alarm type 1
Link Path Size = 6
Link Path = 20 0F 24 71 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 406 (decimal)

INSTANCE 114

GFX4 Function: **a2.t**
Description: Alarm type 2
Link Path Size = 6
Link Path = 20 0F 24 72 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 407 (decimal)

INSTANCE 115

GFX4 Function: **a3.t**
Description: Alarm type 3
Link Path Size = 6
Link Path = 20 0F 24 73 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 408 (decimal)

INSTANCE 116

GFX4 Function: **a4.t**
Description: Alarm type 4
Link Path Size = 6
Link Path = 20 0F 24 74 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 409 (decimal)

INSTANCE 117

GFX4 Function: **Hb.F**
Description: HB alarm function
Link Path Size = 6
Link Path = 20 0F 24 75 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 57 (decimal)

INSTANCE 118

GFX4 Function: **rL.1**
Description: Assign function OUT 1
Link Path Size = 6
Link Path = 20 0F 24 76 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 160 (decimal)

INSTANCE 119

GFX4 Function: **rL.2**
Description: Assign function OUT 2
Link Path Size = 6
Link Path = 20 0F 24 77 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 163 (decimal)

INSTANCE 120

GFX4 Function: **rL.3**
Description: Assign function OUT 3
Link Path Size = 6
Link Path = 20 0F 24 78 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 166 (decimal)

INSTANCE 121

GFX4 Function: **rL.4**
Description: Assign function OUT 4
Link Path Size = 6
Link Path = 20 0F 24 79 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 170 (decimal)

INSTANCE 122

GFX4 Function: **rL.5**
Description: Assign function OUT 5
Link Path Size = 6
Link Path = 20 0F 24 7A 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 171 (decimal)

INSTANCE 123

GFX4 Function: **rL.6**
Description: Assign function OUT 6
Link Path Size = 6
Link Path = 20 0F 24 7B 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 172 (decimal)

INSTANCE 124

GFX4 Function: **Ct.1**
Description: Cycle time OUT 1
Link Path Size = 6
Link Path = 20 0F 24 7c 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 152 (decimal)

INSTANCE 125

GFX4 Function: **Ct.2**
Description: Cycle time OUT 2
Link Path Size = 6
Link Path = 20 0F 24 7d 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 159 (decimal)

INSTANCE 126

GFX4 Function: **rEL**
Description: Define status of action Fault outputs
Link Path Size = 6
Link Path = 20 0F 24 7e 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 229 (decimal)

INSTANCE 127

GFX4 Function: **RAP**
Description: Percentage of Heat or Cool on OUT 7
Link Path Size = 6
Link Path = 20 0F 24 7f 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 421 (decimal)

INSTANCE 128

GFX4 Function: **At.ty**
Description: Valve control type
Link Path Size = 6
Link Path = 20 0F 24 80 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 242 (decimal)

INSTANCE 129

GFX4 Function: **hd.1**
Description: Enable Multiset via serial
Link Path Size = 6
Link Path = 20 0F 24 81 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 191 (decimal)

INSTANCE 130

GFX4 Function: **Ctr**
Description: Control type
Link Path Size = 6
Link Path = 20 0F 24 82 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 180 (decimal)

INSTANCE 131

GFX4 Function: **AI.n**
Description: Enable alarms
Link Path Size = 6
Link Path = 20 0F 24 83 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 195 (decimal)

INSTANCE 132

GFX4 Function: **diG**
Description: Digital input function
Link Path Size = 6
Link Path = 20 0F 24 84 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 140 (decimal)

INSTANCE 133

GFX4 Function: **Ld.St**
Description: Status LED function
Link Path Size = 6
Link Path = 20 0F 24 85 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 197 (decimal)

INSTANCE 134

GFX4 Function: **AI.2**
Description: Auxiliary input selection
Link Path Size = 6
Link Path = 20 0F 24 86 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 194 (decimal)

INSTANCE 135

GFX4 Function: **Hot**
Description: Hot Runners function selection
Link Path Size = 6
Link Path = 20 0F 24 87 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 265 (decimal)

INSTANCE 136

GFX4 Function: **S.00**
Description: Step 0 start scale value
Link Path Size = 6
Link Path = 20 0F 24 88 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 86 (decimal)

INSTANCE 137

GFX4 Function: **S.01**
Description: Step 1 scale
Link Path Size = 6
Link Path = 20 0F 24 89 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 87 (decimal)

INSTANCE 138

GFX4 Function: **S.02**
Description: Step 2 scale
Link Path Size = 6
Link Path = 20 0F 24 8a 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 88 (decimal)

INSTANCE 139

GFX4 Function: **S.03**
Description: Step 3 scale
Link Path Size = 6
Link Path = 20 0F 24 8b 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 89 (decimal)

INSTANCE 140

GFX4 Function: **S.04**
Description: Step 4 scale
Link Path Size = 6
Link Path = 20 0F 24 8c 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 90 (decimal)

INSTANCE 141

GFX4 Function: **S.05**
Description: Step 5 scale
Link Path Size = 6
Link Path = 20 0F 24 8d 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 91 (decimal)

INSTANCE 142

GFX4 Function: **S.06**
Description: Step 6 scale
Link Path Size = 6
Link Path = 20 0F 24 8e 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 92 (decimal)

INSTANCE 143

GFX4 Function: **S.07**
Description: Step 7 scale
Link Path Size = 6
Link Path = 20 0F 24 8f 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 93 (decimal)

INSTANCE 144

GFX4 Function: **S.08**
Description: Step 8 scale
Link Path Size = 6
Link Path = 20 0F 24 90 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 94 (decimal)

INSTANCE 145

GFX4 Function: **S.09**
Description: Step 9 scale
Link Path Size = 6
Link Path = 20 0F 24 91 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 95 (decimal)

INSTANCE 146

GFX4 Function: **S.10**
Description: Step 10 scale
Link Path Size = 6
Link Path = 20 0F 24 92 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 96 (decimal)

INSTANCE 147

GFX4 Function: **S.11**
Description: Step 11 scale
Link Path Size = 6
Link Path = 20 0F 24 93 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 97 (decimal)

INSTANCE 148

GFX4 Function: **S.12**
Description: Step 12 scale
Link Path Size = 6
Link Path = 20 0F 24 94 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 98 (decimal)

INSTANCE 149

GFX4 Function: **S.13**
Description: Step 13 scale
Link Path Size = 6
Link Path = 20 0F 24 95 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 99 (decimal)

INSTANCE 150

GFX4 Function: **S.14**
Description: Step 14 scale
Link Path Size = 6
Link Path = 20 0F 24 96 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 100 (decimal)

INSTANCE 151

GFX4 Function: **S.15**
Description: Step 15 scale
Link Path Size = 6
Link Path = 20 0F 24 97 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 101 (decimal)

INSTANCE 152

GFX4 Function: **S.16**
Description: Step 16 scale
Link Path Size = 6
Link Path = 20 0F 24 98 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 102 (decimal)

INSTANCE 153

GFX4 Function: **S.17**
Description: Step 17 scale
Link Path Size = 6
Link Path = 20 0F 24 99 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 103 (decimal)

INSTANCE 154

GFX4 Function: **S.18**
Description: Step 18 scale
Link Path Size = 6
Link Path = 20 0F 24 9a 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 104 (decimal)

INSTANCE 155

GFX4 Function: **S.19**
Description: Step 19 scale
Link Path Size = 6
Link Path = 20 0F 24 9b 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 105 (decimal)

INSTANCE 156

GFX4 Function: **S.20**
Description: Step 20 scale
Link Path Size = 6
Link Path = 20 0F 24 9c 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 106 (decimal)

INSTANCE 157

GFX4 Function: **S.21**
Description: Step 21 scale
Link Path Size = 6
Link Path = 20 0F 24 9d 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 107 (decimal)

INSTANCE 158

GFX4 Function: **S.22**
Description: Step 22 scale
Link Path Size = 6
Link Path = 20 0F 24 9e 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 108 (decimal)

INSTANCE 159

GFX4 Function: **S.23**
Description: Step 23 scale
Link Path Size = 6
Link Path = 20 0F 24 9f 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 109 (decimal)

INSTANCE 160

GFX4 Function: **S.24**
Description: Step 24 scale
Link Path Size = 6
Link Path = 20 0F 24 a0 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 110 (decimal)

INSTANCE 161

GFX4 Function: **S.25**
Description: Step 25 scale
Link Path Size = 6
Link Path = 20 0F 24 a1 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 111 (decimal)

INSTANCE 162

GFX4 Function: **S.26**
Description: Step 26 scale
Link Path Size = 6
Link Path = 20 0F 24 a2 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 112 (decimal)

INSTANCE 163

GFX4 Function: **S.27**
Description: Step 27 scale
Link Path Size = 6
Link Path = 20 0F 24 a3 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 113 (decimal)

INSTANCE 164

GFX4 Function: **S.28**
Description: Step 28 scale
Link Path Size = 6
Link Path = 20 0F 24 a4 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 114 (decimal)

INSTANCE 165

GFX4 Function: **S.29**
Description: Step 29 scale
Link Path Size = 6
Link Path = 20 0F 24 a5 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 115 (decimal)

INSTANCE 166

GFX4 Function: **S.30**
Description: Step 30 scale
Link Path Size = 6
Link Path = 20 0F 24 a6 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 116 (decimal)

INSTANCE 167

GFX4 Function: **S.31**
Description: Step 31 scale
Link Path Size = 6
Link Path = 20 0F 24 a7 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 117 (decimal)

INSTANCE 168

GFX4 Function: **S.32**
Description: Step 32 full scale value
Link Path Size = 6
Link Path = 20 0F 24 a8 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 118 (decimal)

INSTANCE 169

GFX4 Function: **S.33**
Description: Step 33 mV start scale for CT probe
Link Path Size = 6
Link Path = 20 0F 24 a9 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 293 (decimal)

INSTANCE 170

GFX4 Function: **S.34**
Description: Step 34 mV full scale for CT probe
Link Path Size = 6
Link Path = 20 0F 24 aa 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 294 (decimal)

INSTANCE 171

GFX4 Function: **S.35**
Description: Step 35 mV at TAMB 50°C for CT probe
Link Path Size = 6
Link Path = 20 0F 24 ab 30 01
Descriptor: READ_WRITE_PARAM
Data type: INT
Modbus Address: 295 (decimal)

INSTANCE 172

GFX4 Function: ---
Description: Instrument work status (*note 1*)
Link Path Size = 6
Link Path = 20 0F 24 ac 30 01
Descriptor: READ_ONLY_PARAM
Data type: UINT
Modbus Address: 467 (decimal)

INSTANCE 173

GFX4 Function: **Auto/Man**
Description: Controller in manual
Link Path Size = 6
Link Path = 20 0F 24 ad 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 1 (decimal)

INSTANCE 174

GFX4 Function: **Selftuning**
Description: Start Selftuning
Link Path Size = 6
Link Path = 20 0F 24 ae 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 3 (decimal)

INSTANCE 175

GFX4 Function: **OFF**
Description: Software off
Link Path Size = 6
Link Path = 20 0F 24 af 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 11 (decimal)

INSTANCE 176

GFX4 Function: **Autotuning**
Description: Autotuning on
Link Path Size = 6
Link Path = 20 0F 24 b0 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 29 (decimal)

INSTANCE 177

GFX4 Function: **Loc/Rem**
Description: Enable remote Setpoint
Link Path Size = 6
Link Path = 20 0F 24 b1 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 75 (decimal)

INSTANCE 178

GFX4 Function: **SP1/SP2**
Description: SP1/SP2 selection
Link Path Size = 6
Link Path = 20 0F 24 b2 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 75 (decimal)

INSTANCE 179

GFX4 Function: **AI1 Status**
Description: Alarm1 1 active
Link Path Size = 6
Link Path = 20 0F 24 b3 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 4 (decimal)

INSTANCE 180

GFX4 Function: **AI2 Status**
Description: Alarm1 2 active
Link Path Size = 6
Link Path = 20 0F 24 b4 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 5 (decimal)

INSTANCE 181

GFX4 Function: **AI3 Status**
Description: Alarm1 3 active
Link Path Size = 6
Link Path = 20 0F 24 b5 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 62 (decimal)

INSTANCE 182

GFX4 Function: **AI4 Status**
Description: Alarm1 4 active
Link Path Size = 6
Link Path = 20 0F 24 b6 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 69 (decimal)

INSTANCE 183

GFX4 Function: **LBA Status**
Description: Alarm1 LBA active
Link Path Size = 6
Link Path = 20 0F 24 b7 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 8 (decimal)

INSTANCE 184

GFX4 Function: **HB Status**
Description: Alarm1 HB active
Link Path Size = 6
Link Path = 20 0F 24 b8 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 26 (decimal)

INSTANCE 185

GFX4 Function: **OUT 1 Status**
Description: Output 1 active
Link Path Size = 6
Link Path = 20 0F 24 b9 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 12 (decimal)

INSTANCE 186

GFX4 Function: **OUT 2 Status**
Description: Output 2 active
Link Path Size = 6
Link Path = 20 0F 24 ba 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 13 (decimal)

INSTANCE 187

GFX4 Function: **OUT 3 Status**
Description: Output 3 active
Link Path Size = 6
Link Path = 20 0F 24 bb 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 14 (decimal)

INSTANCE 188

GFX4 Function: **OUT 4 Status**
Description: Output 4 active
Link Path Size = 6
Link Path = 20 0F 24 bc 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 15 (decimal)

INSTANCE 189

GFX4 Function: **OUT 5 Status**
Description: Output 5 active
Link Path Size = 6
Link Path = 20 0F 24 bd 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 16 (decimal)

INSTANCE 190

GFX4 Function: **OUT 6 Status**
Description: Output 6 active
Link Path Size = 6
Link Path = 20 0F 24 be 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 17 (decimal)

INSTANCE 191

GFX4 Function: **Selftuning Status**
Description: Selftuning active
Link Path Size = 6
Link Path = 20 0F 24 bf 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 0 (decimal)

INSTANCE 192

GFX4 Function: **Autotuning Status**
Description: Autotuning active
Link Path Size = 6
Link Path = 20 0F 24 c0 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 28 (decimal)

INSTANCE 193

GFX4 Function: **Softstart Status**
Description: Softstart active
Link Path Size = 6
Link Path = 20 0F 24 c1 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 63 (decimal)

INSTANCE 194

GFX4 Function: **diG Status**
Description: Digital input active
Link Path Size = 6
Link Path = 20 0F 24 c2 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 68 (decimal)

INSTANCE 195

GFX4 Function: **SBR Status**
Description: Probe fault SBR
Link Path Size = 6
Link Path = 20 0F 24 c3 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 9 (decimal)

INSTANCE 196

GFX4 Function: **HB1 Status**
Description: Alarm HB active TA phase 1
Link Path Size = 6
Link Path = 20 0F 24 c4 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 76 (decimal)

INSTANCE 197

GFX4 Function: **HB2 Status**
Description: Alarm HB active TA phase 2
Link Path Size = 6
Link Path = 20 0F 24 c5 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 77 (decimal)

INSTANCE 198

GFX4 Function: **HB3 Status**
Description: Alarm HB active TA phase 3
Link Path Size = 6
Link Path = 20 0F 24 c6 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 78 (decimal)

INSTANCE 199

GFX4 Function: **PW Status**
Description: Status power alarm
Link Path Size = 6
Link Path = 20 0F 24 c7 30 01
Descriptor: READ_ONLY_PARAM
Data type: BOOL
Modbus Bit Address: 80 (decimal)

INSTANCE 200

GFX4 Function: **AL reset**
Description: Reset alarms memory
Link Path Size = 6
Link Path = 20 0F 24 c8 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 79 (decimal)

INSTANCE 201

GFX4 Function: **hold**
Description: Hold input active
Link Path Size = 6
Link Path = 20 0F 24 c9 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 64 (decimal)

INSTANCE 202

GFX4 Function: **AL1 direct**
Description: Alarm 1 direct/inverse
Link Path Size = 6
Link Path = 20 0F 24 ca 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 46 (decimal)

INSTANCE 203

GFX4 Function: **AL1 absolute**
Description: Alarm 1 absolute/relative
Link Path Size = 6
Link Path = 20 0F 24 cb 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 47 (decimal)

INSTANCE 204

GFX4 Function: **AL1 normal**
Description: Alarm 1 normal/symmetrical
Link Path Size = 6
Link Path = 20 0F 24 cc 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 48 (decimal)

INSTANCE 205

GFX4 Function: **AL1 disable**
Description: Alarm 1 to disable on power-up
Link Path Size = 6
Link Path = 20 0F 24 cd 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 49 (decimal)

INSTANCE 206

GFX4 Function: **AL1 memory**
Description: Alarm 1 with memory
Link Path Size = 6
Link Path = 20 0F 24 ce 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 50 (decimal)

INSTANCE 207

GFX4 Function: **AL2 direct**
Description: Alarm 2 direct/inverse
Link Path Size = 6
Link Path = 20 0F 24 cf 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 54 (decimal)

INSTANCE 208

GFX4 Function: **AL2 absolute**
Description: Alarm 2 absolute/relative
Link Path Size = 6
Link Path = 20 0F 24 d0 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 55 (decimal)

INSTANCE 209

GFX4 Function: **AL2 normal**
Description: Alarm 2 normal/symmetrical
Link Path Size = 6
Link Path = 20 0F 24 d1 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 56 (decimal)

INSTANCE 210

GFX4 Function: **AL2 disable**
Description: Alarm 2 disable
Link Path Size = 6
Link Path = 20 0F 24 d2 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 57 (decimal)

INSTANCE 211

GFX4 Function: **AL2 memory**
Description: Alarm 2 with memory
Link Path Size = 6
Link Path = 20 0F 24 d3 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 58 (decimal)

INSTANCE 212

GFX4 Function: **AL3 direct**
Description: Alarm 3 direct/inverse
Link Path Size = 6
Link Path = 20 0F 24 d4 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 36 (decimal)

INSTANCE 213

GFX4 Function: **AL3 absolute**
Description: Alarm 3 absolute/relative
Link Path Size = 6
Link Path = 20 0F 24 d5 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 37 (decimal)

INSTANCE 214

GFX4 Function: **AL3 normal**
Description: Alarm 3 normal/symmetrical
Link Path Size = 6
Link Path = 20 0F 24 d6 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 38 (decimal)

INSTANCE 215

GFX4 Function: **AL3 disable**
Description: Alarm 3 to disable on power-up
Link Path Size = 6
Link Path = 20 0F 24 d7 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 39 (decimal)

INSTANCE 216

GFX4 Function: **AL3 memory**
Description: Alarm 3 with memory
Link Path Size = 6
Link Path = 20 0F 24 d8 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 40 (decimal)

INSTANCE 217

GFX4 Function: **AL4 direct**
Description: Alarm 4 direct/inverse
Link Path Size = 6
Link Path = 20 0F 24 d9 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 70 (decimal)

INSTANCE 218

GFX4 Function: **AL4 absolute**
Description: Alarm 4 absolute/relative
Link Path Size = 6
Link Path = 20 0F 24 da 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 71 (decimal)

INSTANCE 219

GFX4 Function: **AL4 normal**
Description: Alarm 4 normal/symmetrical
Link Path Size = 6
Link Path = 20 0F 24 db 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 72 (decimal)

INSTANCE 220 (*) see note 4

GFX4 Function: **AL4 disable ***
Description: Alarm 4 to disable on power-on
Link Path Size = 6
Link Path = 20 0F 24 dc 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 73 (decimal)

INSTANCE 221 (4) see note 4

GFX4 Function: **AL4 memory ***
Description: Alarm 4 with memory
Link Path Size = 6
Link Path = 20 0F 24 dd 30 01
Descriptor: READ_WRITE_PARAM
Data type: BOOL
Modbus Bit Address: 74 (decimal)

INSTANCE 222

GFX4 Function: **Reserved**
Description: Reserved
Link Path Size = 6
Link Path = 20 0F 24 de 30 01
Descriptor: READ_ONLY_PARAM
Data type: LONGINT
Modbus Address: -

INSTANCE 223

GFX4 Function: **In.2**
Description: Auxiliary input
Link Path Size = 6
Link Path = 20 0F 24 df 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 602 (decimal)

INSTANCE 224

GFX4 Function: **HS.2**
Description: Auxiliary max. scale input
Link Path Size = 6
Link Path = 20 0F 24 e0 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 603 (decimal)

INSTANCE 225 (5) see note 5

GFX4 Function: **Flt.2 ***
Description: Auxiliary input digital filter
Link Path Size = 6
Link Path = 20 0F 24 e1 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 604 (decimal)

INSTANCE 226 (5) see note 5

GFX4 Function: **oFS.2 ***
Description: Auxiliary input offset correction
Link Path Size = 6
Link Path = 20 0F 24 e2 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 605 (decimal)

INSTANCE 227 (5) see note 5

GFX4 Function: **P.Sof ***
Description: Phase softstart time
Link Path Size = 6
Link Path = 20 0F 24 e3 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 629 (decimal)

INSTANCE 228 (5) see note 5

GFX4 Function: **P.S.Hi ***
Description: Max. phase softstart
Link Path Size = 6
Link Path = 20 0F 24 e4 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 630 (decimal)

INSTANCE 229 (5) see note 5

GFX4 Function: **Hd.2 ***
Description: HW config 2
Link Path Size = 6
Link Path = 20 0F 24 e5 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 660 (decimal)

INSTANCE 230 (5) see note 5

GFX4 Function: **dG.t ***
Description: Frequency for alarms
Link Path Size = 6
Link Path = 20 0F 24 e6 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 661 (decimal)

INSTANCE 231 ⁽⁶⁾ see note 5

GFX4 Function: **dG.P** *
Description: Min. power NO_CURRENT
Link Path Size = 6
Link Path = 20 0F 24 e8 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 663 (decimal)

INSTANCE 232 ⁽⁶⁾ see note 5

GFX4 Function: **Hd.3** *
Description: Heuristic power managing enable
Link Path Size = 6
Link Path = 20 0F 24 e9 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 680 (decimal)

INSTANCE 233 ⁽⁶⁾ see note 5

GFX4 Function: **hd.4** *
Description: Heterogeneous power managing
Link Path Size = 6
Link Path = 20 0F 24 ea 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 682 (decimal)

INSTANCE 234 ⁽⁶⁾ see note 5

GFX4 Function: **I.HEt** *
Description: Heterogeneous power managing
Link Path Size = 6
Link Path = 20 0F 24 eb 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: 683 (decimal)

INSTANCE 235 ⁽⁶⁾ see note 6

GFX4 Function: **Map for Parameter 220**
Description: Bit address for Parameter 220
Link Path Size = 6
Link Path = 20 0F 24 ec 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 236 ⁽⁶⁾ see note 6

GFX4 Function: **Map for Parameter 221**
Description: Bit address for Parameter 221
Link Path Size = 6
Link Path = 20 0F 24 ed 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 237 ⁽⁷⁾ see note 7

GFX4 Function: **Map for Parameter 225**
Description: Word address for Parameter 225
Link Path Size = 6
Link Path = 20 0F 24 ef 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 238 ⁽⁷⁾ see note 7

GFX4 Function: **Map for Parameter 226**
Description: Bit address for Parameter 226
Link Path Size = 6
Link Path = 20 0F 24 f0 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 239 ⁽⁷⁾ see note 7

GFX4 Function: **Map for Parameter 227**
Description: Bit address for Parameter 227
Link Path Size = 6
Link Path = 20 0F 24 f1 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 240 ⁽⁷⁾ see note 7

GFX4 Function: **Map for Parameter 228**
Description: Bit address for Parameter 228
Link Path Size = 6
Link Path = 20 0F 24 f2 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 241 (?) see note 7

GFX4 Function: **Map for Parameter 229**
Description: Bit address for Parameter 229
Link Path Size = 6
Link Path = 20 0F 24 f3 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 242 (?) see note 7

GFX4 Function: **Map for Parameter 230**
Description: Bit address for Parameter 230
Link Path Size = 6
Link Path = 20 0F 24 f4 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 243 (?) see note 7

GFX4 Function: **Map for Parameter 231**
Description: Bit address for Parameter 231
Link Path Size = 6
Link Path = 20 0F 24 f5 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 244 (?) see note 7

GFX4 Function: **Map for Parameter 232**
Description: Bit address for Parameter 232
Link Path Size = 6
Link Path = 20 0F 24 f6 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 245 (?) see note 7

GFX4 Function: **Map for Parameter 233**
Description: Bit address for Parameter 233
Link Path Size = 6
Link Path = 20 0F 24 f7 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 246 (?) see note 7

GFX4 Function: **Map for Parameter 234**
Description: Bit address for Parameter 234
Link Path Size = 6
Link Path = 20 0F 24 f8 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 247 (°) see note 8

GFX4 Function: **1st Consume variable map**
Description: Word address for 1st Consume var
Link Path Size = 6
Link Path = 20 0F 24 f9 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 248 (°) see note 8

GFX4 Function: **2nd Consume variable map**
Description: Word address for 2nd Consume var
Link Path Size = 6
Link Path = 20 0F 24 fa 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 249 (°) see note 8

GFX4 Function: **3rd Consume variable map**
Description: Word address for 3rd Consume var
Link Path Size = 6
Link Path = 20 0F 24 fb 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 250 (°) see note 8

GFX4 Function: **4th Consume variable map**
Description: Word address for 4th Consume var
Link Path Size = 6
Link Path = 20 0F 24 fc 30 01
Descriptor: READ_WRITE_PARAM
Data type: UINT
Modbus Address: -

INSTANCE 251 ⁽⁹⁾ see note 9

GFX4 Function: **1st Produce variable map**

Description: Word address for 1st Produce var

Link Path Size = 6

Link Path = 20 0F 24 fd 30 01

Descriptor: READ_WRITE_PARAM

Data type: UINT

Modbus Address: -

INSTANCE 254 ⁽⁹⁾ see note 9

GFX4 Function: **4th Produce variable map**

Description: Word address for 4th Produce var

Link Path Size = 6

Link Path = 20 0F 24 fe 30 01

Descriptor: READ_WRITE_PARAM

Data type: UINT

Modbus Address: -

INSTANCE 252 ⁽⁹⁾ see note 9

GFX4 Function: **2nd Produce variable map**

Description: Word address for 2nd Produce var

Link Path Size = 6

Link Path = 20 0F 24 fd 30 01

Descriptor: READ_WRITE_PARAM

Data type: UINT

Modbus Address: -

INSTANCE 255 ⁽¹⁰⁾ see note 10

GFX4 Function: **Parameter Page selection**

Description: Index page for parameter

Link Path Size = 6

Link Path = 20 0F 24 ff 30 01

Descriptor: READ_WRITE_PARAM

Data type: UINT

Modbus Address: -

INSTANCE 253 ⁽⁹⁾ see note 9

GFX4 Function: **3rd Produce variable map**

Description: Word address for 3rd Produce var

Link Path Size = 6

Link Path = 20 0F 24 fd 30 01

Descriptor: READ_WRITE_PARAM

Data type: UINT

Modbus Address: -

(⁴) note 4:

Parameter Instance **220** and parameter Instance **221** are images of relocables bit variables. Defaults images can be overwritten by others bit variables from GFX4 Modbus bit Memory map.

(⁵) note 5:

Parameter Instances **225, 226, 227, 228, 229, 230, 231, 232, 233** and **234** are images of relocables variables. Defaults images can be overwritten by others word variables from GFX4 Modbus Memory map.

(⁶) note 6:

Writing any Modbus bit address to Parameter Instances **235** to **236** to relocate parameter Instances **220** and **221**.

(⁷) note 7:

Writing any Modbus word address to Parameter Instances **237** to **246** to relocate parameter Instances **225** to **234**.

(⁸) note 8:

Writing any Modbus word address to Parameter Instances **247** to **250** to relocate Consume variable. Default Consume map are:

Default Consume mapping		
CONSUME VARIABLES	Descriptions	Map Parameter Instance
1st Consume variable	Operating Commands	Mapped by Instance 247
2nd Consume variable	Alarm 2 Setpoint	Mapped by Instance 248
3rd Consume variable	Setpoint	Mapped by Instance 249
4th Consume variable	Alarm 1 Setpoint	Mapped by Instance 250

(⁹) note 9:

Writing any Modbus word address to Parameter Instances **251** to **254** to relocate Produce variable. Default Produce map are:

Default Produce mapping		
PRODUCE VARIABLES	Descriptions	Map Parameter Instance
1st Produce variable	Process Value	Mapped by Instance 251
2nd Produce variable	Status word	Mapped by Instance 252
3rd Produce variable	Out Power	Mapped by Instance 253
4th Produce variable	I1.On	Mapped by Instance 254

(¹⁰) note 10:

Writing Instance Parameter **255** to value x (where x is between 0 ÷ 15) to Get / Set Instance Parameter Class Attribute 1 for slave x using default DeviceNet service.

- 0x0E Get_Attribute_Single
- 0x10 Set_Attribute_Single

For example if we want to Read / Write Parameter for slave 4 (see fig.1) using default DeviceNet service, write Instance Parameter **255** to **3** and then use Get_Attribute_Single or Set_Attribute_Single services as need.

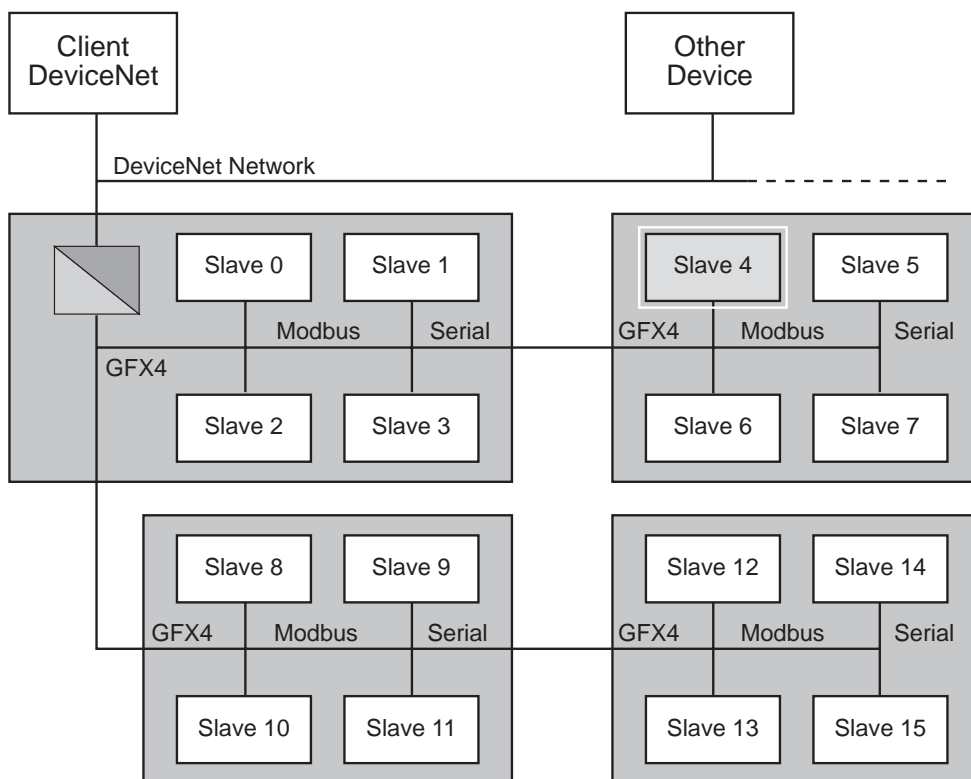
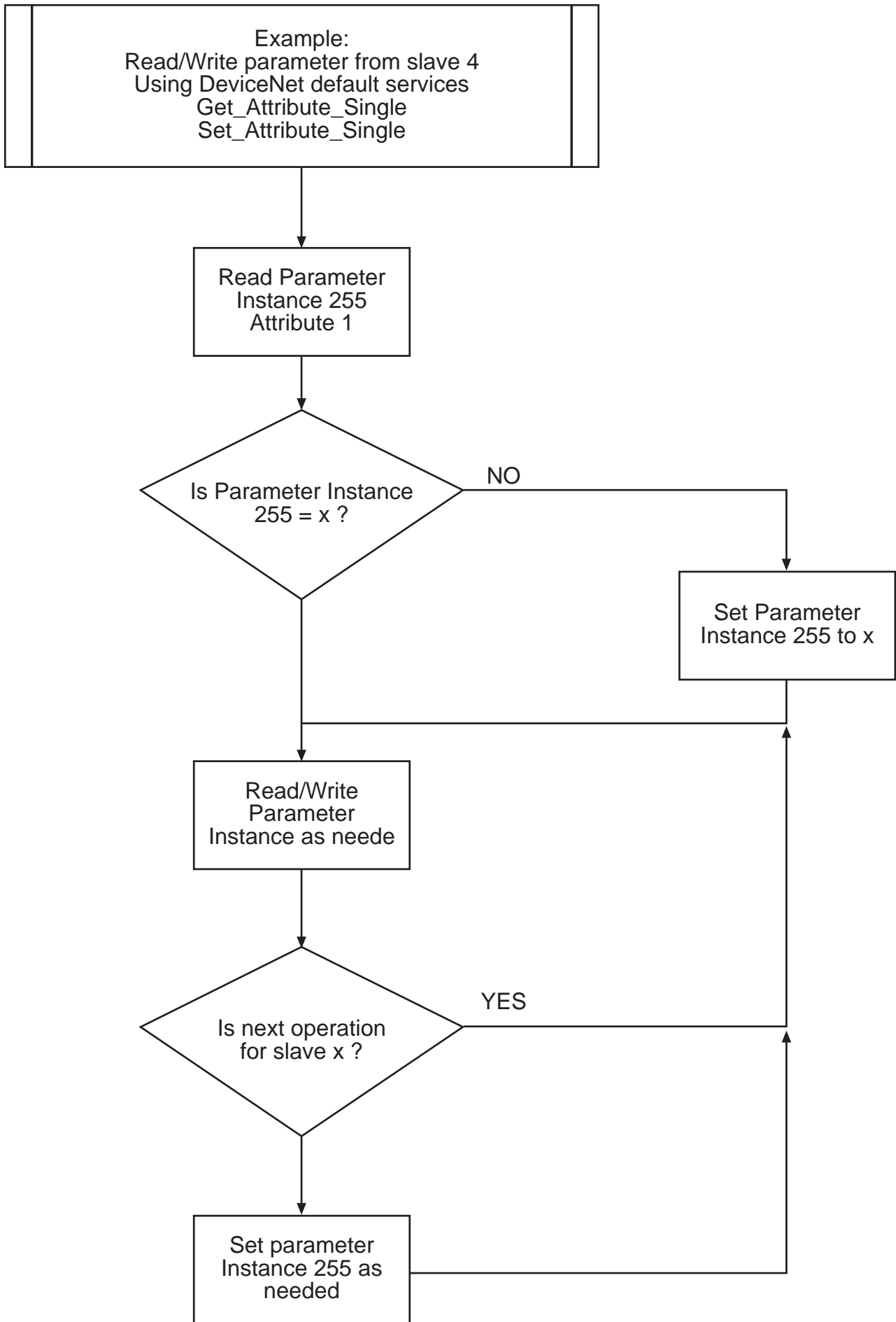


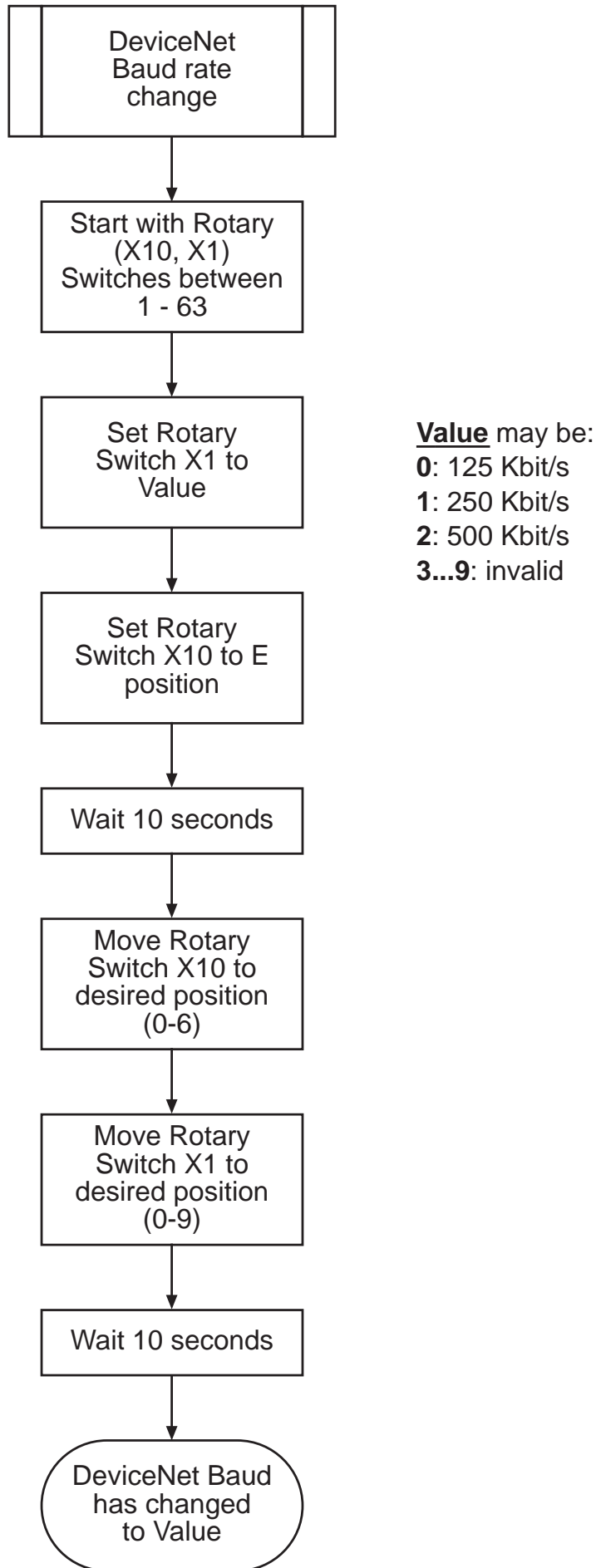
fig. 1

An example of Network

Reading / Writing parameter instances flow



DeviceNet Baud rate change flow



6 • Parameter Instances Table

Instance	Type	Word / Bit / Long	Variable Name
1	Fixed	-	-
÷	÷	÷	÷
219	Fixed	-	-
220	Relocable	Bit	A14 disable
221	Relocable	Bit	A14 memory
222	Reserved	Long	-
223	Fixed	Word	-
224	Fixed	Word	-
225	Relocable	Word	Flt.2
226	Relocable	Word	ofs.2
227	Relocable	Word	P.sof
228	Relocable	Word	P.shi
229	Relocable	Word	HD.2
230	Relocable	Word	dg.t
231	Relocable	Word	dg.p
232	Relocable	Word	HD.3
233	Relocable	Word	HD.4
234	Relocable	Word	i.het
235	Mapping for 220	-	73
236	Mapping for 221	-	74
237	Mapping for 225	-	604
238	Mapping for 226	-	605
239	Mapping for 227	-	629
240	Mapping for 228	-	630
241	Mapping for 229	-	660
242	Mapping for 230	-	661
243	Mapping for 231	-	663
244	Mapping for 232	-	680
245	Mapping for 233	-	682
246	Mapping for 234	-	683
247	1 st Produce variable map	-	Process Value
248	2nd Produce variable map	-	Status word
249	3rd Produce variable map	-	Out Power
250	4th Produce variable map	-	I1.On
251	1st Consume variable map	-	Operating Commands
252	2 nd Consume variable map	-	AL2 setpoint
253	3 rd Consume variable map	-	Setpoint
254	4 th Consume variable map	-	AL1 setpoint
255	Parameter Page selection	-	0

GEFRAN

GEFRAN spa
via Sebina 74
25050 Provaglio d'Iseo (BS) Italy
Tel. +39 030 9888.1
Fax +39 030 9839063
info@gefran.com
<http://www.gefran.com>