

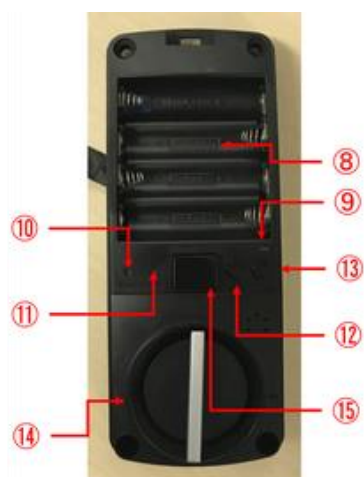
Glamo SmartLock Z-Wave Manual

Glamo SmartLock Z-Wave Manual

Ver1.0

Glamo Inc.

Glamo SmartLock Z-Wave Manual



equipment name	Application explanation
① WakeUp button	Used to start operation.
② Numeric keypad	It is used for entering PIN code and changing the main unit setting.
③ Card reader	You can open and close keys by touching the card or smartphone that registered key data. It is also used when registering key data.
④ Open/close knob	It is used to open and close the key.
⑤ Display panel	Out of battery icon Leo Lock Appears when the battery of the main unit is about to run out
⑥ 9Vsquare battery terminal	When Leo Lock's battery runs out, Leo Lock can be operated by bringing the polar part of the 9V square battery into contact with this part
⑦ Main unit cover removal button	Pull the main unit cover by pulling it while pressing the button.
⑧ Battery storage space	Load four AA batteries × 4.
⑨ LED lamp	The lamp glows according to the operation.
⑩ Reset button	Clear key data other than this key, Reset Leo Lock setting to default value.
⑪ Clear button	It is used to clear key data other than this key.
⑫ Pairing button	It is used when pairing with Leo Remocon.
⑬ Key registration button	It is used for registering spare keys.
⑭ Open/close knob	It is used to open and close the key.
⑮ Open/close button	Open / close keys in automatic mode.

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- Z-Wave

Z-Wave is a wireless network capable of low power and long-term operation.

Products of different manufacturers and product categories are possible to be part of the same Z-Wave network.

Regardless of the manufacturer, various non-battery power supply nodes can function as repeaters.

- Inclusion / Exclusion

Put the controller in Inclusion / Exclusion mode.

Push the pairing button until the beep sounds three times.

If you hold the master key over the card reader, you will be in Inclusion / Exclusion mode.

- Reset

Press the clear button and pairing button until the beep sounds three times.

When you hold the master key over the card reader, the setting of Z - Wave Reset is reset.

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• Supported Command Classes

Command Class	Version	Secure/Unsecure
Z-Wave Plus Info	2	UnSecure
Transport Service	2	UnSecure
Security 0	1	UnSecure
Security 2	1	UnSecure
Version	2	Secure
Manufacturer Specific	2	Secure
Device Reset Locally	1	Secure
Powerlevel	1	Secure
Battery	1	Secure
Door Lock	2	Secure
User Code	1	Secure
Association	2	Secure
Association Group Info	1	Secure
Time Parameters	1	Secure
Supervision	1	Secure
Indicator	1	Secure
Application Status	1	Secure
Notification	8	Secure
Configuration	2	Secure
Firmware Update Md	4	Secure

• Associations Groups

ID	Discription	Maximum Nodes	Commands
1	Lifeline	1	Association Group Command List Report Battery report Device Reset Locally notification Notification report

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• Notification

Notification Type	Event	Comments
Access Control (0x06)	RF lock operation (0x03)	locking
Access Control (0x06)	RF unlock operation (0x04)	Unlock
Access Control (0x06)	Auto lock locked operation(0x09)	Locking with auto lock
Access Control (0x06)	Auto lock not fully locked operation(0x0A)	Locking with auto lock failed
Access Control (0x06)	All user codes deleted(0x0C)	Delete all key data
Access Control (0x06)	New user code added(0x0E)	Add key data
Access Control (0x06)	Manually enter user access code exceeds code limit(0x13)	The date and time limit of key data, the number of effective times exceeded
Access Control (0x06)	Unlock by RF with invalid user code(0x14)	Unlock by wrong key data
Access Control (0x06)	Locked by RF with invalid user code(0x15)	Locking by wrong key data
Access Control (0x06)	Unknown(0xFE)	Change key data
System(0x09)	System hardware failure (0x03)	01 : Unlock failure 02 : Locking failure 03 : Auto lock failure 04 : Battery warning 05 : Long opening of doors
System(0x09)	System software failure(0x04)	01 : Time reset request 02 : Failed to add key data 03 : Key data change failed 04 : Failed to delete key data
Emergency Alarm(0x0A)	Contact police(0x01)	Vandalism
Emergency Alarm(0x0A)	Contact fire service(0x02)	Fire occurred

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• ConfigurationCC

Name	Size	Number of Parameters	Parameter Offset
State acquisition	1	1	1

You can get the status of Lock. It is read-only and can not be changed.

• mode 0-2bit

000: Normal mode

001: Pairing mode

010: Master key registration mode

011: Key registration mode

100: Door opening mode

• alarm 3-5bit

000: Alarm pattern 1

001: Alarm pattern 2

010: Alarm pattern 3

011: Fire occurred

100: I forcibly unlocked and tried to destroy

101: Door open condition warning / 111: No alarm

• Malfunction 6bit

0: No failure

1: Faulty

	7	6	5	4	3	2	1	0
0	Empty (0)	Malfunction	alarm			mode		

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Name	Size	Number of Parameters	Parameter Offset
Delete all key data	1	1	3

Delete key data other than master key data.

- Delete flag

0: Default value

1: Delete execution

2: Delete complete

3: Delete error

4: time out

Set the deletion flag to 「1」 and execute deletion.

As a result, 「2」 , 「3」 , 「4」 are assigned.

	7	6	5	4	3	2	1	0
0	Delete flag							

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Name	Size	Number of Parameters	Parameter Offset
Delete all logs	1	1	4

Delete all saved logs.

- Delete flag
 - 0: Default value
 - 1: Delete execution
 - 2: Delete complete
 - 3: Delete error
 - 4: time out

Set the deletion flag to 「1」 and execute deletion.

As a result, 「2」 , 「3」 , 「4」 are assigned.

	7	6	5	4	3	2	1	0
0	Delete flag							

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Name	Size	Number of Parameters	Parameter Offset
Alarm setting	4	6	301

Set alarm information.

If key data and key ID are set, check key ID and key data before turning it on by IndicatorCC.

- Alarm number 1byte
 - 0x01: Default value
 - 0x01: pattern 1
 - 0x02: pattern 2
 - 0x03: pattern 3
- Ring time 2byte
 - 0x001E: Default value
 - 0x0001-0x0E10: Setting range
- Reject reason / Release result 1byte
 - 0x00: Unlock successful
 - 0x01: Invalid key ID
 - 0x02: Invalid key data
 - 0x03: Incorrect combination of key ID and key data
 - 0x09: Key ID, key data not specified (default value) "
 - 0xFE: time out
 - 0xFF: Key ID, initial value with key data specification
- Key ID 2byte
 - 0xFF: Default value
- Key data 16byte
 - 0xFF: Default value

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	7	6	5	4	3	2	1	0
0	Alarm number							
	Ring time 1							
	Sound time 2							
	Reject reason / Release result							
1	Key ID 1							
	Key ID 2							
	Empty 「0 fill」							
	Empty 「0 fill」							
2	Key data 1							
	Key data 2							
	Key data 3							
	Key data 4							
3	Key data 5							
	Key data 6							
	Key data 7							
	Key data 8							
4	Key data 9							
	Key data 10							
	Key data 11							
	Key data 12							
5	Key data 13							
	Key data 14							
	Key data 15							
	Key data 16							

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Name	Size	Number of Parameters	Parameter Offset	Description
Main unit setting	4	2	321	

The items that can be set are as follows.

The default value is not described because it can be changed.

● 1byte

- Buzzer sound 0-2bit

range 0 – 7

- action mode 3-4bit

00 auto mode

01 Manual mode

10 Inoperative mode

- Type setting that can be registered as a master key 5-6bit

00 NFC card for master key only

01 PIN number only

10 NFC card for master key and PIN only

11 Felica etc. All keys

● 2byte

- Battery remaining warning threshold 1byte

range 33-60

● 3byte

- Imaginary mode 0bit

0:OFF / 1:ON

- auto lock 1bit

0:OFF / 1:ON

- Automatic unlock when fire occurs 2bit

0:OFF / 1:ON

- Presence / absence of authentication at locking 3bit

0:OFF / 1:ON

- Unreasonable unlock warning 4bit

0:OFF / 1:ON

- Tampering prevention function 5bit

0:OFF / 1:ON

- Automatic re-lock 6bit

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0:OFF / 1:ON

- PIN security key issuance setting on key body operation 7bit

0:OFF / 1:ON

●4byte

- Open arbitrarily 1bit

0:OFF / 1:ON

- Wakeup button 2bit

0:OFF / 1:ON

●5-6byte

- Maximum Number of Key Registrations 2byte

range 1-500

●7-8byte

- Maximum number of key registrations by users 2byte

range 1-500

	7	6	5	4	3	2	1	0
0	Empty (0 fill)	[14] As a master key Type setting that can be registered		[06] action mode		[01] Buzzer sound		
	[12] Battery remaining warning threshold 30 ~60							
	[10] PIN security key issuance setting on key body operation	[09] Automatic RELOCK	[08] mischief Prevention function	[07] Unreasonable unlocking alarm	[05] Locking authentication With or without	[04] When a fire occurs Automatic unlocking	[03] auto lock	[02] Imaginary mode
	Empty (0 fill)					[15] Wakeup button	[13] Open arbitrarily	Empty (0 fill)
1	[16] Maximum Number of Key Registrations (1-500) 1							
	[16] Maximum Number of Key Registrations (1-500) 2							
	[17] Maximum number of key registrations by user (1- 500) 1							
	[17] Maximum number of key registrations by user (1- 500) 2							

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Name	Size	Number of Parameters	Parameter Offset	Description
Information setting during door lock operation	4	5	341	

Set lock operation information.

When DoorLockCC is executed with information set,

Before locking and unlocking, confirm the key ID and key data.

- Key data 16byte
 - 0xFF: Default value
- mode 1byte
 - 0x00:Unlock
 - 0x01: locking
 - 0x02: Key registration mode
 - Unlock: Default value
- Key ID 2byte
 - 0xFF: Default value

	7	6	5	4	3	2	1	0
0	Key data 1							
	Key data 2							
	Key data 3							
	Key data 4							
1	Key data 5							
	Key data 6							
	Key data 7							
	Key data 8							
2	Key data 9							
	Key data 10							
	Key data 11							
	Key data 12							
3	Key data 13							
	Key data 14							
	Key data 15							
	Key data 16							
4	mode							
	Key ID 1							
	Key ID 2							

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Empty 「0 fill」			
Name	Size	Number of Parameters	Parameter Offset
Obtain log Index	4	10	351

The index where the log is saved is 1, the index which is not saved is 0, and it is possible to check the existence with the bit flag. It is read-only and can not be changed.

	7	6	5	4	3	2	1	0
0	Index 8	Index 7	Index 6	Index 5	Index 4	Index 3	Index 2	Index 1
	Index 16	Index 15	Index 14	Index 13	Index 12	Index 11	Index 10	Index 9
	Index 24	Index 23	Index 22	Index 21	Index 20	Index 19	Index 18	Index 17
	Index 32	Index 31	Index 30	Index 29	Index 28	Index 27	Index 26	Index 25
1	Index 40	Index 39	Index 38	Index 37	Index 36	Index 35	Index 34	Index 33
	Index 48	Index 47	Index 46	Index 45	Index 44	Index 43	Index 42	Index 41
	Index 56	Index 55	Index 54	Index 53	Index 52	Index 51	Index 50	Index 49
	Index 64	Index 63	Index 62	Index 61	Index 60	Index 59	Index 58	Index 57
2	Index 72	Index 71	Index 70	Index 69	Index 68	Index 67	Index 66	Index 65
	Index 80	Index 79	Index 78	Index 77	Index 76	Index 75	Index 74	Index 73
	Index 88	Index 87	Index 86	Index 85	Index 84	Index 83	Index 82	Index 81
	Index 96	Index 95	Index 94	Index 93	Index 92	Index 91	Index 90	Index 89
3	Index 104	Index 103	Index 102	Index 101	Index 100	Index 99	Index 98	Index 97
	Index 112	Index 111	Index 110	Index 109	Index 108	Index 107	Index 106	Index 105
	Index 120	Index 119	Index 118	Index 117	Index 116	Index 115	Index 114	Index 113
	Index 128	Index 127	Index 126	Index 125	Index 124	Index 123	Index 122	Index 121
4	Index 136	Index 135	Index 134	Index 133	Index 132	Index 131	Index 130	Index 129
	Index 144	Index 143	Index 142	Index 141	Index 140	Index 139	Index 138	Index 137
	Index 152	Index 151	Index 150	Index 149	Index 148	Index 147	Index 146	Index 145
	Index 160	Index 159	Index 158	Index 157	Index 156	Index 155	Index 154	Index 153
5	Index 168	Index 167	Index 166	Index 165	Index 164	Index 163	Index 162	Index 161
	Index 176	Index 175	Index 174	Index 173	Index 172	Index 171	Index 170	Index 169
	Index 184	Index 183	Index 182	Index 181	Index 180	Index 179	Index 178	Index 177
	Index 192	Index 191	Index 190	Index 189	Index 188	Index 187	Index 186	Index 185
6	Index 200	Index 199	Index 198	Index 197	Index 196	Index 195	Index 194	Index 193
	Index 208	Index 207	Index 206	Index 205	Index 204	Index 203	Index 202	Index 201
	Index 216	Index 215	Index 214	Index 213	Index 212	Index 211	Index 210	Index 209
	Index 224	Index 223	Index 222	Index 221	Index 220	Index 219	Index 218	Index 217
7	Index 232	Index 231	Index 230	Index 229	Index 228	Index 227	Index 226	Index 225
	Index 240	Index 239	Index 238	Index 237	Index 236	Index 235	Index 234	Index 233
	Index 248	Index 247	Index 246	Index 245	Index 244	Index 243	Index 242	Index 241
	Index 256	Index 255	Index 254	Index 253	Index 252	Index 251	Index 250	Index 249
8	Index 264	Index 263	Index 262	Index 261	Index 260	Index 259	Index 258	Index 257
	Index 272	Index 271	Index 270	Index 269	Index 268	Index 267	Index 266	Index 265
	Index 280	Index 279	Index 278	Index 277	Index 276	Index 275	Index 274	Index 273
	Index 288	Index 287	Index 286	Index 285	Index 284	Index 283	Index 282	Index 281
9	Index 296	Index 295	Index 294	Index 293	Index 292	Index 291	Index 290	Index 289
	Empty (0 fill)				Index 300	Index 299	Index 298	Index 297
	Empty (0 fill)							
	Empty (0 fill)							

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Name	Size	Number of Parameters	Parameter Offset
Key data setting	4	16	361

Key data can be registered, updated and deleted.

Perform the desired operation by changing the action of the item.

The execution result of the action is stored in Reject reason.

- Valid flag 0bit
 - 0 Disabled
 - 1 Valid (default value)
- Authentication method 1-4bit
 - 0000 NFC
 - 0001 FeliCa
 - 0010 Android(HCE)
 - 0011 PIN
 - 1111 Default value
- Type 5-7bit
 - 000 Master key registration PIN key (one time)
 - 001 Management PIN key
 - 010 Master key
 - 011 No locking / unlocking master key
 - 100 Additional key
 - 111 Default value
- Registration type 1byte
 - 0x00 user registration
 - 0x01 System registration
 - 0xFF Default value
- Number of effective unlocking times 2byte
 - 0xFF Default value
- Key data 2byte
 - 0xFF Default value
- token 2byte
 - 0xFF Default value

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- Registered Date 7byte
 - 0xFF Default value
- Reserve1 1byte
 - 0xFF Default value
- Effective start date and time 7byte
 - 0xFF Default value
- Reserve2 1byte
 - 0xFF Default value
- Valid end date and time 7byte
 - 0xFF Default value
- action 1byte
 - 0x00 Registration
 - 0x01 update
 - 0x02 Delete
 - 0xFF Default value
- Key ID 2byte
 - 0xFF Default value
- Reject reason 1byte
 - 0x01 success
 - 0xFD Failure
 - 0xFE time out
 - 0xFF Default value

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	7	6	5	4	3	2	1	0
0	Type			Authentication method				Valid flag
	Registration type							
	Number of effective unlocking times 1							
	Number of effective unlocking times 2							
1	Key data 1							
	Key data 2							
	Key data 3							
	Key data 4							
2	Key data 5							
	Key data 6							
	Key data 7							
	Key data 8							
3	Key data 9							
	Key data 10							
	Key data 11							
	Key data 12							
4	Key data 13							
	Key data 14							
	Key data 15							
	Key data 16							
5	token 1							
	token 2							
	token 3							
	token 4							
6	token 5							
	token 6							
	token 7							
	token 8							
7	token 9							
	token 10							
	token 11							
	token 12							
8	token 13							
	token 14							
	token 15							
	token 16							
9	Registered Date YEAR1							
	Registered Date YEAR2							
	Registered Date Month							
	Registered Date Day							
10	Registered Date Hour UTC							
	Registered Date Minute UTC							
	Registered Date Second UTC							
	(Reserved1)							
11	Effective start date and time YEAR1							
	Effective start date and time YEAR2							
	Effective start date and time Month							
	Effective start date and time Day							

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12	Effective start date and time Hour UTC
	Effective start date and time Minute UTC
	Effective start date and time Second UTC
	(Reserved2)
13	Valid end date and time YEAR1
	Valid end date and time YEAR2
	Valid end date and time Month
	Valid end date and time Day
14	Valid end date and time Hour UTC
	Valid end date and time Minute UTC
	Valid end date and time Second UTC
	Empty 「0 fill」
15	action
	ID 1
	ID 2
	Reject reason

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Name	Size	Number of Parameters	Parameter Offset
Acquire all key ID	4	16	381

The ID for which key data is registered is 1, the ID which is not registered is 0, and the presence or absence can be confirmed by bit flag. It is read-only and can not be changed.

	7	6	5	4	3	2	1	0
0	ID 8	ID 7	ID 6	ID 5	ID 4	ID 3	ID 2	ID 1
	ID 16	ID 15	ID 14	ID 13	ID 12	ID 11	ID 10	ID 9
	ID 24	ID 23	ID 22	ID 21	ID 20	ID 19	ID 18	ID 17
	ID 32	ID 31	ID 30	ID 29	ID 28	ID 27	ID 26	ID 25
1	ID 40	ID 39	ID 38	ID 37	ID 36	ID 35	ID 34	ID 33
	ID 48	ID 47	ID 46	ID 45	ID 44	ID 43	ID 42	ID 41
	ID 56	ID 55	ID 54	ID 53	ID 52	ID 51	ID 50	ID 49
	ID 64	ID 63	ID 62	ID 61	ID 60	ID 59	ID 58	ID 57
2	ID 72	ID 71	ID 70	ID 69	ID 68	ID 67	ID 66	ID 65
	ID 80	ID 79	ID 78	ID 77	ID 76	ID 75	ID 74	ID 73
	ID 88	ID 87	ID 86	ID 85	ID 84	ID 83	ID 82	ID 81
	ID 96	ID 95	ID 94	ID 93	ID 92	ID 91	ID 90	ID 89
3	ID 104	ID 103	ID 102	ID 101	ID 100	ID 99	ID 98	ID 97
	ID 112	ID 111	ID 110	ID 109	ID 108	ID 107	ID 106	ID 105
	ID 120	ID 119	ID 118	ID 117	ID 116	ID 115	ID 114	ID 113
	ID 128	ID 127	ID 126	ID 125	ID 124	ID 123	ID 122	ID 121
4	ID 136	ID 135	ID 134	ID 133	ID 132	ID 131	ID 130	ID 129
	ID 144	ID 143	ID 142	ID 141	ID 140	ID 139	ID 138	ID 137
	ID 152	ID 151	ID 150	ID 149	ID 148	ID 147	ID 146	ID 145
	ID 160	ID 159	ID 158	ID 157	ID 156	ID 155	ID 154	ID 153
5	ID 168	ID 167	ID 166	ID 165	ID 164	ID 163	ID 162	ID 161
	ID 176	ID 175	ID 174	ID 173	ID 172	ID 171	ID 170	ID 169
	ID 184	ID 183	ID 182	ID 181	ID 180	ID 179	ID 178	ID 177
	ID 192	ID 191	ID 190	ID 189	ID 188	ID 187	ID 186	ID 185
6	ID 200	ID 199	ID 198	ID 197	ID 196	ID 195	ID 194	ID 193
	ID 208	ID 207	ID 206	ID 205	ID 204	ID 203	ID 202	ID 201
	ID 216	ID 215	ID 214	ID 213	ID 212	ID 211	ID 210	ID 209
	ID 224	ID 223	ID 222	ID 221	ID 220	ID 219	ID 218	ID 217
7	ID 232	ID 231	ID 230	ID 229	ID 228	ID 227	ID 226	ID 225
	ID 240	ID 239	ID 238	ID 237	ID 236	ID 235	ID 234	ID 233
	ID 248	ID 247	ID 246	ID 245	ID 244	ID 243	ID 242	ID 241
	ID 256	ID 255	ID 254	ID 253	ID 252	ID 251	ID 250	ID 249
8	ID 264	ID 263	ID 262	ID 261	ID 260	ID 259	ID 258	ID 257
	ID 272	ID 271	ID 270	ID 269	ID 268	ID 267	ID 266	ID 265
	ID 280	ID 279	ID 278	ID 277	ID 276	ID 275	ID 274	ID 273

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	ID 288	ID 287	ID 286	ID 285	ID 284	ID 283	ID 282	ID 281
9	ID 296	ID 295	ID 294	ID 293	ID 292	ID 291	ID 290	ID 289
	ID 304	ID 303	ID 302	ID 301	ID 300	ID 299	ID 298	ID 297
	ID 312	ID 311	ID 310	ID 309	ID 308	ID 307	ID 306	ID 305
	ID 320	ID 319	ID 318	ID 317	ID 316	ID 315	ID 314	ID 313
10	ID 328	ID 327	ID 326	ID 325	ID 324	ID 323	ID 322	ID 321
	ID 336	ID 335	ID 334	ID 333	ID 332	ID 331	ID 330	ID 329
	ID 344	ID 343	ID 342	ID 341	ID 340	ID 339	ID 338	ID 337
	ID 352	ID 351	ID 350	ID 349	ID 348	ID 347	ID 346	ID 345
11	ID 360	ID 359	ID 358	ID 357	ID 356	ID 355	ID 354	ID 353
	ID 368	ID 367	ID 366	ID 365	ID 364	ID 363	ID 362	ID 361
	ID 376	ID 375	ID 374	ID 373	ID 372	ID 371	ID 370	ID 369
	ID 384	ID 383	ID 382	ID 381	ID 380	ID 379	ID 378	ID 377
12	ID 392	ID 391	ID 390	ID 389	ID 388	ID 387	ID 386	ID 385
	ID 400	ID 399	ID 398	ID 397	ID 396	ID 395	ID 394	ID 393
	ID 408	ID 407	ID 406	ID 405	ID 404	ID 403	ID 402	ID 401
	ID 416	ID 415	ID 414	ID 413	ID 412	ID 411	ID 410	ID 409
13	ID 424	ID 423	ID 422	ID 421	ID 420	ID 419	ID 418	ID 417
	ID 432	ID 431	ID 430	ID 429	ID 428	ID 427	ID 426	ID 425
	ID 440	ID 439	ID 438	ID 437	ID 436	ID 435	ID 434	ID 433
	ID 448	ID 447	ID 446	ID 445	ID 444	ID 443	ID 442	ID 441
14	ID 456	ID 455	ID 454	ID 453	ID 452	ID 451	ID 450	ID 449
	ID 464	ID 463	ID 462	ID 461	ID 460	ID 459	ID 458	ID 457
	ID 472	ID 471	ID 470	ID 469	ID 468	ID 467	ID 466	ID 465
	ID 480	ID 479	ID 478	ID 477	ID 476	ID 475	ID 474	ID 473
15	ID 488	ID 487	ID 486	ID 485	ID 484	ID 483	ID 482	ID 481
	ID 496	ID 495	ID 494	ID 493	ID 492	ID 491	ID 490	ID 489
	Empty (0 fill)				ID 500	ID 499	ID 498	ID 497
	Empty (0 fill)							

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Name	Size	Number of Parameters	Parameter Offset
Log acquisition	4	3	1001

Acquire operation log. It is read-only and can not be changed.

300 logs are saved. When acquiring the second log, acquire the log with 1013 as Parameter Offset, which is obtained by adding 12 to the 1st parameter offset.

- Log output date and time 7byte
0xFF: Default value
- Event Type 1byte/Event Details 4byte
0xFF: Default value

Below is the details for each event type.

●0x01: Unlock

- Key ID 2byte
- result 1byte
0x00 success
0x01 Failure
0x02 Failure (in case the dead bolt did not move despite locking / unlocking operation in automatic mode)
0x03 Failure (when clutch did not move in manual mode)

●0x02: locking

- Key ID 2byte
- result 1byte
0x00 success
0x01 Failure
0x02 Failure (in case the dead bolt did not move despite locking / unlocking operation in automatic mode)
0x03 Failure (when clutch did not move in manual mode)

●0x03: alarm

- Alarm type 1byte
0x01 Alarm notification pattern1
0x02 Alarm notification pattern2

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0x03 Alarm notification pattern3

0x04 Automatic unlock when fire occurs

0x05 Destruction warning

0x07 Alarm stop

0x08 Battery remaining warning

●0x04: Master Key Registration

- Key ID 2byte

●0x05: Key registration

- Key ID 2byte

●0x06: Delete master key

- Key ID 2byte

●0x07: Delete key

- Key ID 2byte

●0x08: Delete all keys

- No details

●0x09: Key invalid

- Key ID 2byte

●0x0A: Key change

- Key ID 2byte

●0x0B: Pairing

- result 1byte

0x00 Pairing success

0x01 Pairing release successful

●0x0C: Default configuration

- No details

●0x0D: Configuration

- Setting type 1byte (Refer to main unit setting)
- Setting contents 2byte

●0x0E: Unlock without authentication

- No details

●0x0F: Lock without authentication

- No details

●0x10: Version up of the farm

- Version 1byte
- Revision 1byte

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	7	6	5	4	3	2	1	0
0	Log output date and time YEAR1							
	Log output date and time YEAR2							
	Log output date and time Month							
	Log output date and time Day							
1	Log output date and time Hour UTC							
	Log output date and time Minute UTC							
	Log output date and time Second UTC							
	Event Type							
2	event information 1							
	event information 2							
	event information 3							
	event information 4							

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Name	Size	Number of Parameters	Parameter Offset
Key data acquisition	4	15	2001

Get key data. It is read-only and can not be changed.

We saved 500 key data. When acquiring the second key data, acquire the key data with 2061 as Parameter Offset, which is obtained by adding 60 to the first parameter offset.

- Valid flag 0bit
 - 0 Disabled
 - 1 Valid (default value)
- Authentication method 1-4bit
 - 0000 NFC
 - 0001 FeliCa
 - 0010 Android(HCE)
 - 0011 PIN
 - 1111 Default value
- Type 5-7bit
 - 000 Master key registration PIN key (one time)
 - 001 Management PIN key
 - 010 Master key
 - 011 No locking / unlocking master key
 - 100 Additional key
 - 111 Default value
- Registration type 1byte
 - 0x00 user registration
 - 0x01 System registration
 - 0xFF Default value
- Number of effective unlocking times 2byte
 - 0xFF Default value
- Key data 2byte
 - 0xFF Default value
- token 2byte
 - 0xFF Default value

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- Registered Date 7byte
0xFF Default value
- Reserve1 1byte
0xFF Default value
- Effective start date and time 7byte
0xFF Default value
- Reserve2 1byte
0xFF Default value
- Valid end date and time 7byte
0xFF Default value

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	7	6	5	4	3	2	1	0
0	Type			Authentication method				Valid flag
	Registration type							
	Number of effective unlocking times 1							
	Number of effective unlocking times 2							
1	Key data1							
	Key data 2							
	Key data 3							
	Key data 4							
2	Key data 5							
	Key data 6							
	Key data 7							
	Key data 8							
3	Key data 9							
	Key data 10							
	Key data 11							
	Key data 12							
4	Key data 13							
	Key data 14							
	Key data 15							
	Key data 16							
5	token 1							
	token 2							
	token 3							
	token 4							
6	token 5							
	token 6							
	token 7							
	token 8							
7	token 9							
	token 10							
	token 11							
	token 12							
8	token 13							
	token 14							
	token 15							
	token 16							
9	Registered Date YEAR1							
	Registered Date YEAR2							
	Registered Date Month							
	Registered Date Day							
10	Registered Date Hour UTC							
	Registered Date Minute UTC							
	Registered Date Second UTC							
	(Reserved1)							
11	Effective start date and time YEAR1							

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	Effective start date and time YEAR2
	Effective start date and time Month
	Effective start date and time Day
12	Effective start date and time Hour UTC
	Effective start date and time Minute UTC
	Effective start date and time Second UTC
	(Reserved2)
13	Valid end date and time YEAR1
	Valid end date and time YEAR2
	Valid end date and time Month
	Valid end date and time Day
14	Valid end date and time Hour UTC
	Valid end date and time Minute UTC
	Valid end date and time Second UTC
	Empty 「0 fill」