

**K-BUS KNX**

**KNX Timer module with LCD display\_V1.2**

**BATM-82/00.1**



**KNX/EIB**

注意事项

1、请勿离强磁场、高压、高温场所。

印本设备

4、请勿自行拆

|      |                          |    |
|------|--------------------------|----|
|      | .....                    | 1  |
|      | .....                    | 3  |
|      | .....                    | 4  |
| 3.1  | .....                    | 4  |
| 3.2  | .....                    | 4  |
|      | .....                    | 5  |
| 4.1  | .....                    | 5  |
| 4.2  | .....                    | 6  |
| 4.3  | .....                    | 7  |
| 4.4  | .....                    | 8  |
| 4.5  | .....                    | 9  |
| 4.6  | .....                    | 11 |
| 4.7  | .....                    | 12 |
| 4.8  | .....                    | 13 |
| 4.9  | .....                    | 14 |
| 4.10 | .....                    | 15 |
| ETS  | .....                    | 16 |
| 5.1  | General .....            | 16 |
| 5.2  | Weekly cycle .....       | 17 |
| 5.3  | Holiday cycle .....      | 21 |
| 5.4  | Single timer .....       | 22 |
| 5.5  | Astronomical clock ..... | 24 |
|      | .....                    | 25 |
| 6.1  | General .....            | 25 |
| 6.2  | Weekly cycle .....       | 27 |
| 6.3  | Holiday cycle .....      | 28 |
| 6.4  | Single timer .....       | 29 |
| 6.5  | Astronomical clock ..... | 30 |

KNX

KNX

KNX

KNX

KNX

KNX

24-30V DC

.knxproj

ETS

ETS5.7

KNX

KNX

●

2.4

●

KNX

●

●

82

4

2

12

64

●

ON/OFF

/

ON/OFF

ETS

ON/OFF

●

ON/OFF

/

ON/OFF

ETS

ON/OFF

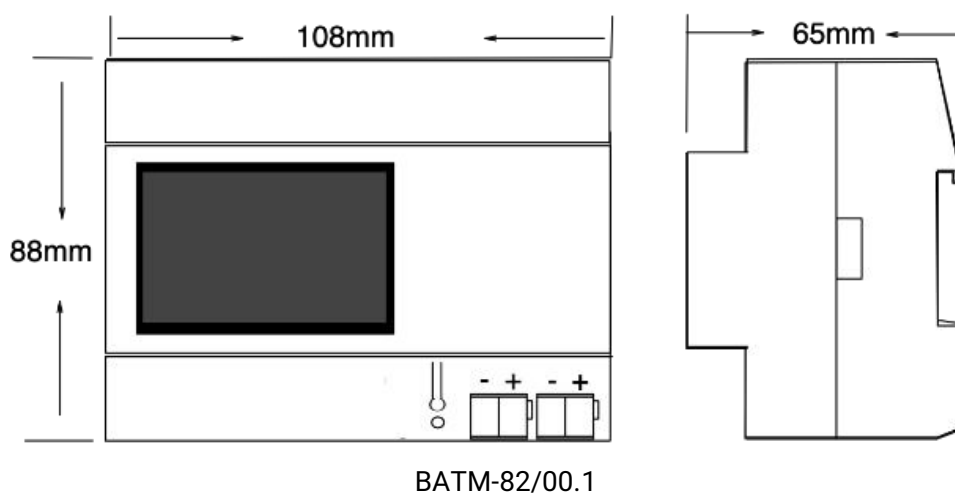
---

|   |       |        |        |        |
|---|-------|--------|--------|--------|
| • |       | ETS    | ON/OFF | ON/OFF |
|   | 0-255 |        |        |        |
| • |       |        | /      | ON/OFF |
|   | ETS   | ON/OFF |        |        |

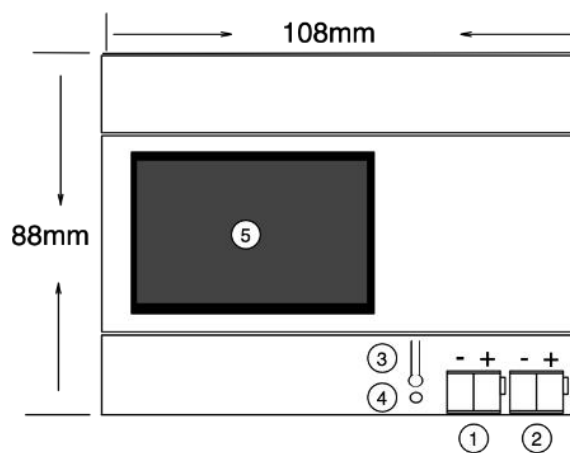
|                                          |                 |
|------------------------------------------|-----------------|
| <b>24-30V DC</b>                         |                 |
| <5mA/24V DC <4mA/30V DC                  |                 |
| <120mW                                   |                 |
| <b>24-30V DC</b>                         |                 |
| <40mA/24V DC, <35mA/30V DC               |                 |
| <1.1W                                    |                 |
| <b>KNX</b>                               | <b>( 0.8mm)</b> |
| KNX                                      | /               |
| <b>LED</b>                               |                 |
| <b>5 °C ... 45 °C</b>                    |                 |
| – 25 °C ... 55 °C                        |                 |
| – 25 °C ... 70 °C                        |                 |
| <b>&lt;93%,</b>                          |                 |
| <b>35</b>                                |                 |
| <b>/ 108.0mm Ø88.0mm Ø65.0mm / 0.3KG</b> |                 |

|                                                       |     |     |     |
|-------------------------------------------------------|-----|-----|-----|
|                                                       |     |     |     |
| Weekly timing/Festival timing/Sunrise and Sunset /1.0 | 227 | 254 | 254 |

### 3.1



### 3.2



KNX

/

KNX

/

4.1



4

2

10

2

64

ON/OFF

ON/OFF

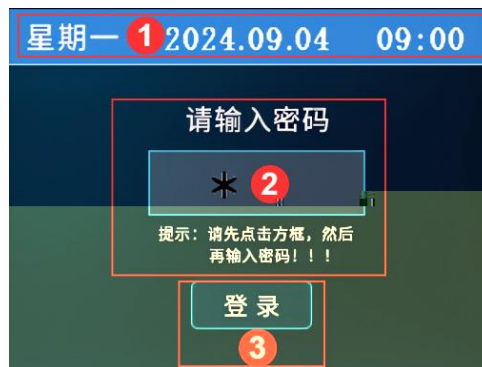
/

/

action,xx channel x

OFF

## 4.2



8421

1.

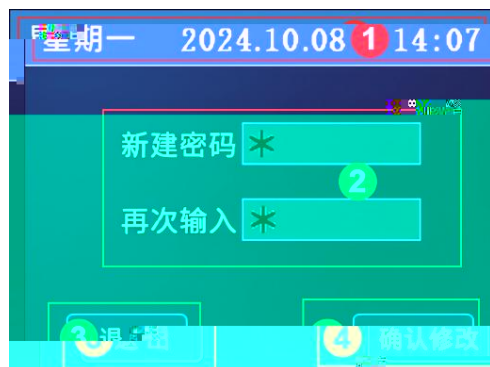
4.4.

2.

## 4.3



## 4.4



1

1-4

1

5

(-)0000

## 4.5



4

/

/

/

/

ON/OFF

18:30 ON 18:30 OFF OFF

4



4.6



12

|   |   |    |    |
|---|---|----|----|
| 4 | 7 | 5- | 8  |
| 8 | 7 | 9- | 12 |
| / | / |    |    |
|   | / |    |    |
| / |   |    |    |

[2000,2099]

ON/OFF

## 4.7



2

/ /

/

/

[-60min, 60min]

ON/OFF

4.8



64

|   |   |    |    |
|---|---|----|----|
| 4 | 5 | 5- | 8  |
| 8 | 5 | 9- | 12 |

...

/

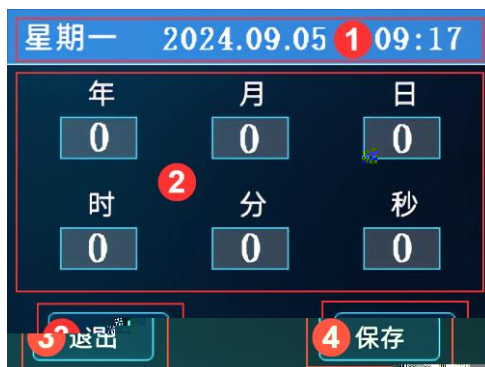
/

/

0

[2000, 2099]

## 4.9



/ / [00.99]

/ /

## 4.10



[-180.00, 180.00]

[-90.00, 90.00]

## ETS

## 5.1

## General

"General" 5.1

datetime report cyclic time (min)



5.1

"General"

datetime report cyclic time (min)



0...255min 0=

0

ETS

45

report, datetime, general 226 report date, general 227 report time, general

**5.2**

**Weekly cycle**

Weekly cycle

ON/OFF

4

weekly channel 1...4

weekly channel 1

5.2



5.2

"Weekly cycle"

Channel control obj

action, weekly channel x

**Disable**

**Enable**

Disable:

action, weekly channel x

Enable:

action, weekly channel x

Timing on output

ON

**output switch**

**output percent**

**output scene**

**cyclic output on**

**no output**

-- **switch output**

output switch

ON /

**OFF**

**ON**

-- **percent output (0-100%)**

output percent

ON

0...100%

-- **scene output (1-64)**

output scene

ON

1-64

-- **cyclic time (s), max = 255s**

cyclic output on

ON

0-255 0=

Timing off output

OFF

**output switch**

**output percent**

**output scene**

**cyclic output on**

**no output**

-- **switch output**

output switch

OFF

/

**OFF**

**ON**

-- **percent output (0-100%)**

output percent

OFF

0...100%

-- **scene output (1-64)**

output scene

OFF

1-64

-- **cyclic time (s), max = 255s**

cyclic output on

OFF

0-255 0=

### 5.3

### Holiday cycle

Holiday cycle

ON/OFF

12

Holiday channel 1...12

5.3

5.2 weekly channel 1

Channel control.obj

☒ Disable ☐ Enable

Timing on output

output switch

☐ OFF ☒ ON

Timing off output

output switch

☒ OFF ☐ ON

5.3

"Holiday cycle"

5.4

Single timer

ON/OFF

64

Single timer

channel 1...64

single timer channel 1-8

8

5.4

Timer output type - timer(1)

output value of timer preset

---

Timer output type - timer(2)

output 1 byte

1  timer output (0-255)

0

---

Timer output type - timer(3)

no output

---

Timer output type - timer(4)

no output

---

Timer output type - timer(5)

no output

---

Timer output type - timer(6)

no output

---

Timer output type - timer(7)

no output

---

Timer output type - timer(8)

no output

5.4

"Single timer"

Timer output type – timer(x) (x=1~8)

ON/OFF

x

output value of timer preset

ON/OFF

output 1 byte

1

**QVS**

**K-BUS**

KNX/EIB

KNX

o output

output value of timer preset:



## 5.5

## Astronomical clock

Astronomical clock

ON/OFF

2

Astronomical channel 1/2

5.5

5.2 weekly channel 1

Channel control.obj

☒ Disable ☐ Enable

Timming on output

output switch ▼

switch output

☐ OFF ☒ ON

Timming off output

output switch ▼

switch output

☒ OFF ☐ ON

5.5

Astronomical clock



|     |                |                      |        |     |                    |
|-----|----------------|----------------------|--------|-----|--------------------|
|     |                |                      |        |     |                    |
| 226 | month/day/year | report date, general | 3bytes | C,T | 11.001 date        |
|     |                |                      |        |     |                    |
| 227 | week,hh:mm:ss  | report time, general | 3bytes | C,T | 10.001 time of day |
|     |                |                      |        |     |                    |

## 6.1 "General"

## 6.2 Weekly cycle

| Number | Name                      | Object Function | Length | C | P | W | T | D | Data Type            | Priority |
|--------|---------------------------|-----------------|--------|---|---|---|---|---|----------------------|----------|
| 8      | switch, weekly channel 1  | on/off          | 1 bit  | C | - | - | T | - | switch               | Low      |
| 9      | percent, weekly channel 1 | 0-100%          | 1 byte | C | - | - | T | - | percentage (0..100%) | Low      |
| 10     | scene, weekly channel 1   | 1-64            | 1 byte | C | - | - | T | - | scene number         | Low      |
| 46     | action, weekly channel 1  | disable/enable  | 1 bit  | C | - | W | - | - | enable               | Low      |

### 6.2 "Weekly cycle"

#### DPT

|            |        |                           |       |     |                            |
|------------|--------|---------------------------|-------|-----|----------------------------|
| 8/11/14/17 | on/off | switch, weekly channel x  | 1bit  | C,T | 1.001 switch               |
|            |        | ON/OFF                    |       |     |                            |
|            | 1---   |                           |       |     |                            |
|            | 0---   |                           |       |     |                            |
| 9/12/15/18 | 0-100% | percent, weekly channel x | 1byte | C,T | 5.001 percentage (0..100%) |

□ □ □ □ □ □ □ □

### 6.3 Holiday cycle

|                                                                                   | Number | Name                       | Object Function | Length | C | R | W | T | U | Data Type            | Priority |
|-----------------------------------------------------------------------------------|--------|----------------------------|-----------------|--------|---|---|---|---|---|----------------------|----------|
|  | 20     | switch, holiday channel 1  | on/off          | 1 bit  | C | - | - | T | - | switch               | Low      |
|  | 21     | percent, holiday channel 1 | 0-100%          | 1 byte | C | - | - | T | - | percentage (0..100%) | Low      |
|  | 22     | scene, holiday channel 1   | 1-64            | 1 byte | C | - | - | T | - | scene number         | Low      |
|  | 50     | action, holiday channel 1  | disable/enable  | 1 bit  | C | - | W | - | - | enable               | Low      |

#### 6.3 "Holiday cycle"

|                                         |                |                            |       |     | DPT                        |
|-----------------------------------------|----------------|----------------------------|-------|-----|----------------------------|
| 20/23/.../88/91                         | on/off         | switch, holiday channel x  | 1bit  | C,T | 1.001 switch               |
| ON/OFF<br><br>1—<br><br>0—              |                |                            |       |     |                            |
| 21/24/.../89/92                         | 0-100%         | percent, holiday channel x | 1byte | C,T | 5.001 percentage (0..100%) |
| ON/OFF<br><br>0...100%                  |                |                            |       |     |                            |
| 22/25/.../90/93                         | 1-64           | scene, holiday channel x   | 1byte | C,T | 17.001 scene number        |
| ON/OFF<br><br>1...64                    |                |                            |       |     |                            |
| 50/51/.../91/94                         | disable/enable | action, holiday channel x  | 1bit  | C,W | 1.003 enable               |
| /<br><br>1—<br><br>0—<br><br>:<br><br>: |                |                            |       |     |                            |

#### 6.3 "Holiday cycle"

**GVS**

**K-BUS**

KNX/EIB

KNX

64

## 6.5 Astronomical clock

| Number | Name                            | Object Function | Length | C | P | R | W | T | U | Data type           | Priority |
|--------|---------------------------------|-----------------|--------|---|---|---|---|---|---|---------------------|----------|
| 26     | switch, astronomical channel 1  | on/off          | 1 bit  | C | - | - | - | - | - | switch              | Low      |
| 27     | percent, astronomical channel 1 | 0-100%          | 1 byte | C | - | - | - | - | - | percentage (0-100%) | Low      |
| 28     | scene, astronomical channel 1   | 1-64            | 1 byte | C | - | - | T | - | - | scene number        | Low      |
| 52     | action, astronomical channel 1  | disable/enable  | 1 bit  | C | - | W | - | - | - | enable              | Low      |

## 6.5 “Astronomical clock”

|                                                                                                                                                                                            |                    |                                 |       |     |                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|-------|-----|----------------------------|
|                                                                                                                                                                                            |                    |                                 |       |     | DPT                        |
| 26/29                                                                                                                                                                                      | on/off             | switch, astronomical channel x  | 1bit  | C,T | 1.001 switch               |
| <p style="text-align: center;">ON/OFF</p> <p style="text-align: center;">1—</p> <p style="text-align: center;">0—</p>                                                                      |                    |                                 |       |     |                            |
| 27/30                                                                                                                                                                                      | 0-100%             | percent, astronomical channel x | 1byte | C,T | 5.001 percentage (0..100%) |
| <p style="text-align: center;">ON/OFF</p> <p style="text-align: center;">0...100%</p>                                                                                                      |                    |                                 |       |     |                            |
| 28/31                                                                                                                                                                                      | 1-64               | scene, astronomical channel x   | 1byte | C,T | 17.001 scene number        |
| <p style="text-align: center;">ON/OFF</p> <p style="text-align: center;">1...64</p>                                                                                                        |                    |                                 |       |     |                            |
| 52/53                                                                                                                                                                                      | disable/<br>enable | action, astronomical channel x  | 1bit  | C,W | 1.003 enable               |
| <p style="text-align: center;">/</p> <p style="text-align: center;">1—</p> <p style="text-align: center;">0—</p> <p style="text-align: center;">:</p> <p style="text-align: center;">:</p> |                    |                                 |       |     |                            |

## 6.5 “Astronomical clock”