Digital Switch

IS45-US

Installation Guide

1 Safety Guidelines and Warnings

This general safety information is to be used both during installation and operation of the device. DAE Instrument Corp. assumes no liability for the user's failure to comply with these safety guidelines.

⚠ CAUTION

To prevent the risk of electric shock, turn off all sources of electrical power to the device during installation or wiring.

⚠ Warnings

• Install only by a qualified and trained personnel.
• Follow these instructions accordingly, otherwise damage may occur to the device.
• Follow electrical rules and regulations in the selection of wire materials and gauges.
• Avoid having oil, water, metallic powder or other foreign substances enter the device.

2 Limited Warranty

DAE warrants this product against defects in material and workmanship for a period of two years from the original date of purchase. DAE's responsibility is limited to repair, replacement or refund, any of which may be selected by DAE at its sole discretion.

This warranty only covers defects under normal use and does not include malfunction or damage resulting from: misuse, neglect, improper installation, water damage, acts of nature, and/or product modifications/alterations/repairs that are not DAE.

In no event shall DAE be deemed liable for any indirect, incidental, special, consequential or punitive damages (including damage for lost profits) arising out of or in connection with the furnishing of the product. DAE's liability to the customer shall not exceed the purchase price paid by the customer for the products claimed. No other warranties, obligations, liabilities for consequential damages are made under this warranty. Warranties of merchantability and fitness for a particular purpose are expressly excluded.

3 Return Policy

The return policy will depend on where the product was purchased. If the end user purchased the product from a DAE dealer, then the return policy is up to the dealer, please refer to the dealer for the specifics. If the product was purchased directly from DAE, then the following applies:
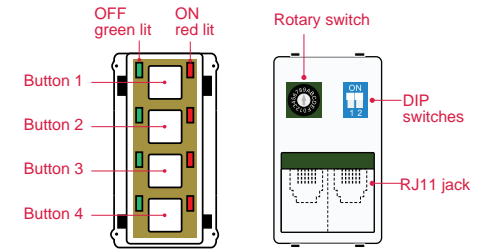
• All material returned for refund must be in good, "as new" and in salable condition. A 20% restocking fee is charged on all RMA (Returned Material Authorization).

• The buyer must notify the DAE and request an RMA number and state the specific reason for return. Unauthorized returns will not be accepted. When requesting an RMA number, please supply the following information:
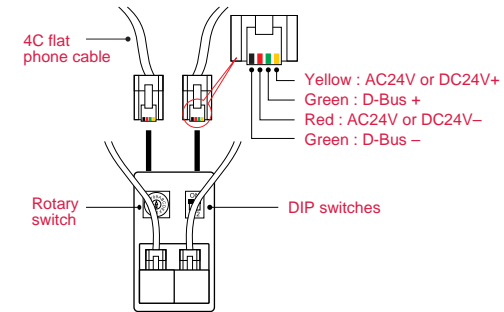
  - Name and address
  - Model number of meter
  - Original purchase order number
  - Reason for return

• All paperwork and boxes must be marked with an RMA number issued by DAE. All authorized returned materials must be shipped freight prepaid to the seller.
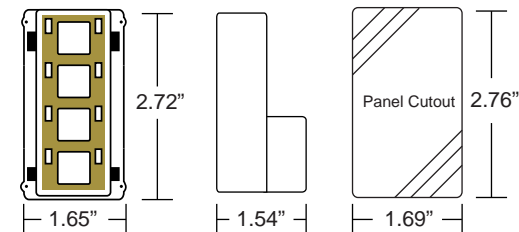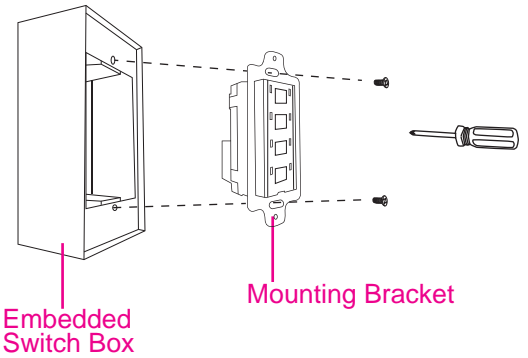
4 Operator Interface

5 Wiring Diagram

Yellow : AC24V or DC24V+
Green : D-Bus +
Red : AC24V or DC24V–
Green : D-Bus –

6 Dimensions

7 Mounting

Embedded
Switch Box

Mounting Bracket

8 Configuration

1. Single Mode

● Matched with any 4 channeled LT unit

DIP SW		Rotary SW	Matches with LT address
OFF	OFF	1~F	1~15
ON	OFF	0~F	16~31

Note: Please see appendix 1

● Matched with an LT1050

DIP SW		Rotary SW	Matches with LT1050 address
OFF	ON	0~F	1~64

Note: Please see appendix 2

2. All On/Off

DIP SW		Rotary SW	
ON	ON	0	— All on — All off

3. Group/Pattern Mode

DIP SW		Rotary SW	Matches with
ON	ON	1~9	Groups 1~36
		A~F	Patterns 64~87

Note: Please see appendix 3

4. Arbitrary Mode

DIP SW		Rotary SW	Matches with
OFF	OFF	0	Arbitrary Mode

Note : This mode can only be configured using either the special handheld setting device or through software. It allows any button to be arbitrarily assigned any relay channel.
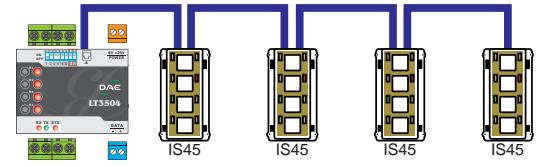

4C flat phone cable

USB cable (OTG)

D-Bus Adapter

Mobile APP

9 Labeling

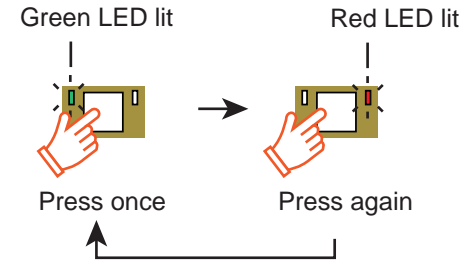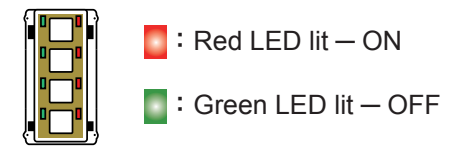Label 12 x 12mm
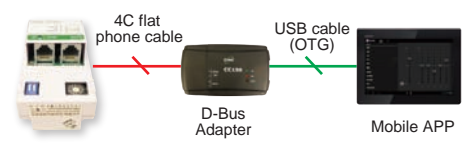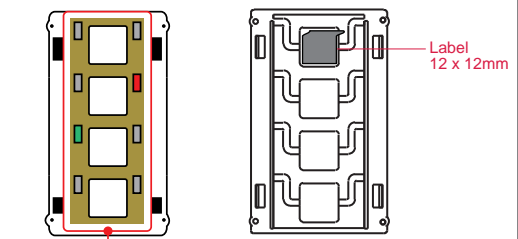
Remove the cover

10 Fan Out and Distance

Caution : The IS port of each LT module can only fan out to support four IS45 at most, the total distance of the cable should not exceed 80 meters.

IS45   IS45   IS45   IS45

Tip: When calculating the power supply capacity needed, consider that each IS45 consumes 0.6VA.

11 LED Indicators

🟥 : Red LED lit — ON

🟩 : Green LED lit — OFF

Green LED lit   Red LED lit

Press once   Press again

◎Appendix 1

OFF,OFF	1~F

Rotary SW	LT Address	Button 1	Button 2	Button 3	Button 4
		Matches with the output of LT module			
1	1	1	2	3	4
2	2	1	2	3	4
3	3	1	2	3	4
4	4	1	2	3	4
5	5	1	2	3	4
6	6	1	2	3	4
7	7	1	2	3	4
8	8	1	2	3	4
9	9	1	2	3	4
A	10	1	2	3	4
B	11	1	2	3	4
C	12	1	2	3	4
D	13	1	2	3	4
E	14	1	2	3	4
F	15	1	2	3	4

ON,OFF	0~F

Rotary SW	LT Address	Button 1	Button 2	Button 3	Button 4
		Matches with the output of LT module			
0	31	1	2	3	4
1	16	1	2	3	4
2	17	1	2	3	4
3	18	1	2	3	4
4	19	1	2	3	4
5	20	1	2	3	4
6	21	1	2	3	4
7	22	1	2	3	4
8	23	1	2	3	4
9	24	1	2	3	4
A	25	1	2	3	4
B	26	1	2	3	4
C	27	1	2	3	4
D	28	1	2	3	4
E	29	1	2	3	4
F	30	1	2	3	4

◎Appendix 2

OFF,ON	0~F

Rotary SW	LT Address	Button 1	Button 2	Button 3	Button 4
		Matches with the LT1050 address			
0	1	61	62	63	64
1	1	1	2	3	4
2	1	5	6	7	8
3	1	9	10	11	12
4	1	13	14	15	16
5	1	17	18	19	20
6	1	21	22	23	24
7	1	25	26	27	28
8	1	29	30	31	32
9	1	33	34	35	36
A	1	37	38	39	40
B	1	41	42	43	44
C	1	45	46	47	48
D	1	49	50	51	52
E	1	53	54	55	56
F	1	57	58	59	60

◎Appendix 3

ON,ON	1~F

Rotary SW	Button 1	Button 2	Button 3	Button 4
	Group			
1	1	2	3	4
2	5	6	7	8
3	9	10	11	12
4	13	14	15	16
5	17	18	19	20
6	21	22	23	24
7	25	26	27	28
8	29	30	31	32
9	33	34	35	36
Rotary SW	Pattern			
A	64	65	66	67
B	68	69	70	71
C	72	73	74	75
D	76	77	78	79
E	80	81	82	83
F	84	85	86	87

Smart for Greenlife !