

## What's in the box?

In addition to this guide, the package includes the following items:



**iSOS-309-IP65**



**Screw Driver**



**CA-014 cable**



**SP-S2-DS**  
(iSOS-309-IP65/S2 only)



**M12A-2P-IP67**  
(iSOS-309-IP65/S2 only)

## Resources

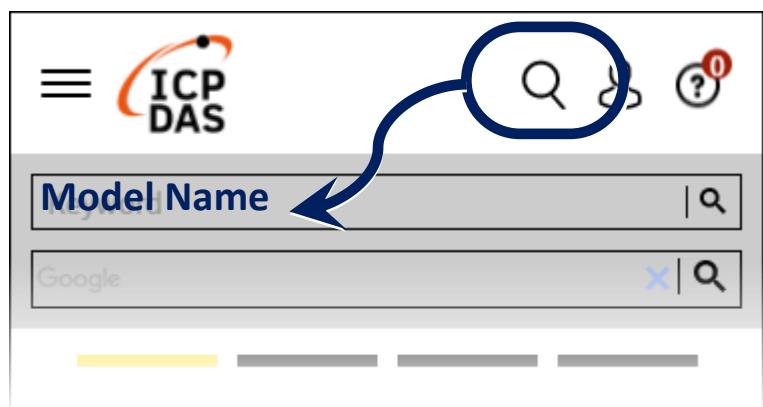
How to search for drivers, manuals and spec information on the ICP DAS website.

## Technical Support

[service@icpdas.com](mailto:service@icpdas.com)

[www.icpdas.com](http://www.icpdas.com)

- For Mobile Web

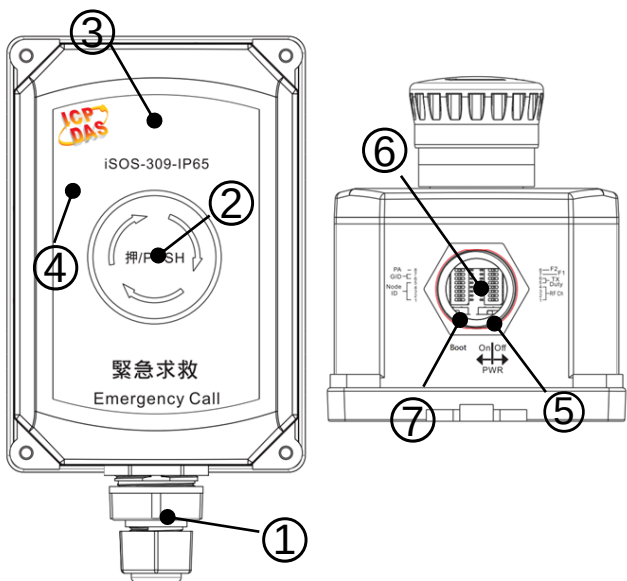


- For Desktop Web



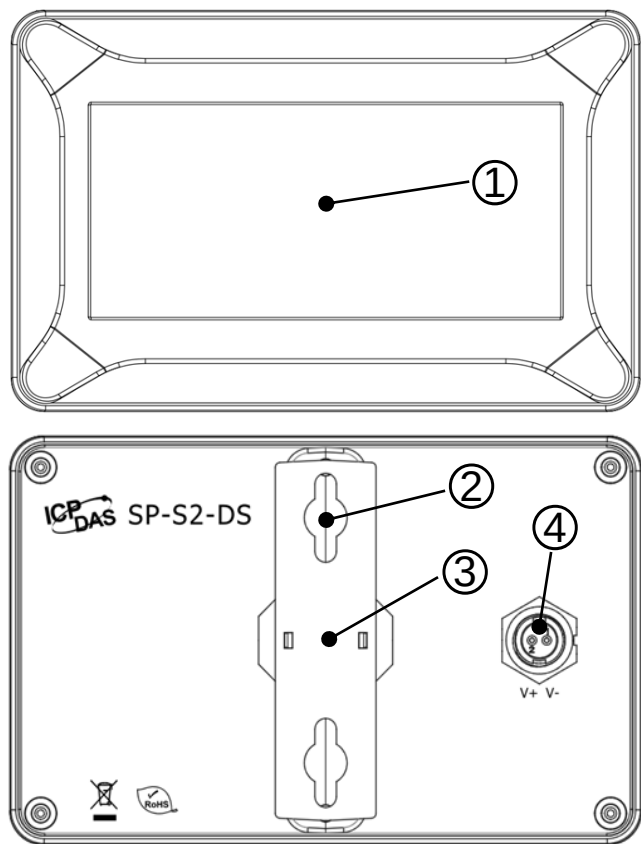
# 1 Appearance

## iSOS-309-IP65



| Number | Instructions                               |
|--------|--------------------------------------------|
| 1      | Waterproof connector                       |
| 2      | Emergency button                           |
| 3      | Build in whip antenna                      |
| 4      | LED indicator                              |
| 5      | Power switch                               |
| 6      | Switch for communication parameter setting |
| 7      | Boot button                                |

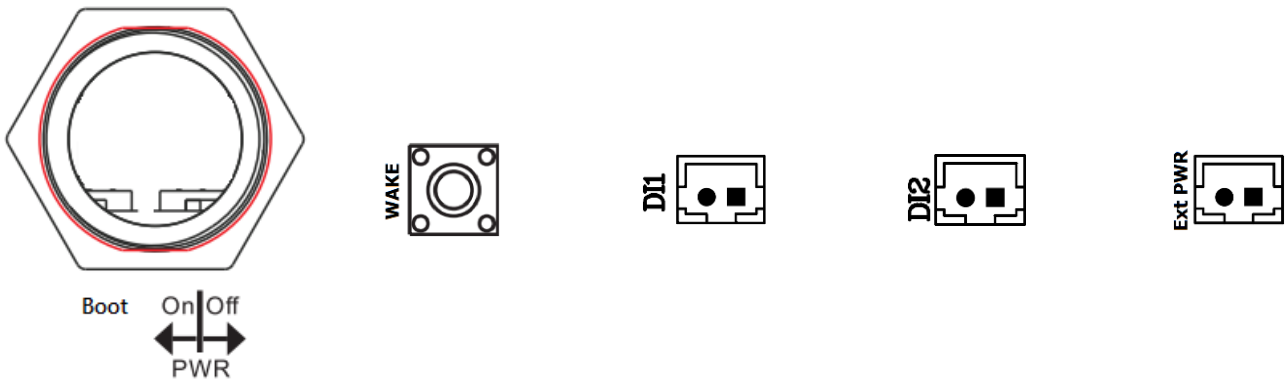
## SP-S2-DS



| Number | Instructions    |
|--------|-----------------|
| 1      | DSC module      |
| 2      | Wall mount      |
| 3      | Magnetic mount  |
| 4      | Power connector |

| CONN. | Pin Assignment |
|-------|----------------|
| 1     | V-             |
| 2     | V+             |

# 2 Switch / Button / Connector

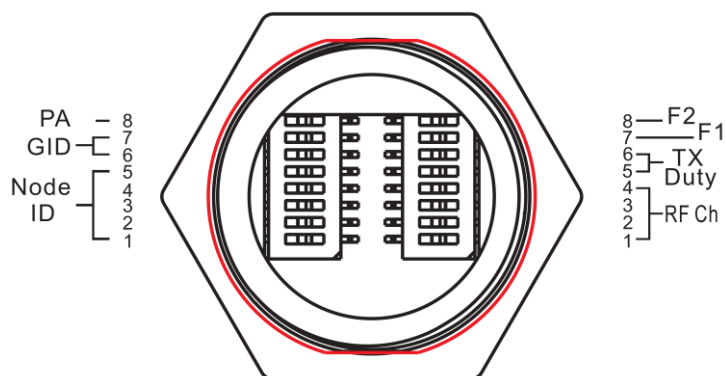


| Connector |  |     |  |     |  |     |
|-----------|-----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-----|
| Define    | DI                                                                                | GND | DI                                                                                | GND | VCC                                                                                 | GND |

| Switch | Instructions |           |
|--------|--------------|-----------|
| PWR    | ON           | Power on  |
|        | OFF          | Power off |

| Button | Instructions                                        |
|--------|-----------------------------------------------------|
| Boot   | Hold on button for 3 more seconds to boot up device |
| Wake   | Manual wake up                                      |

# 3 Communication parameters

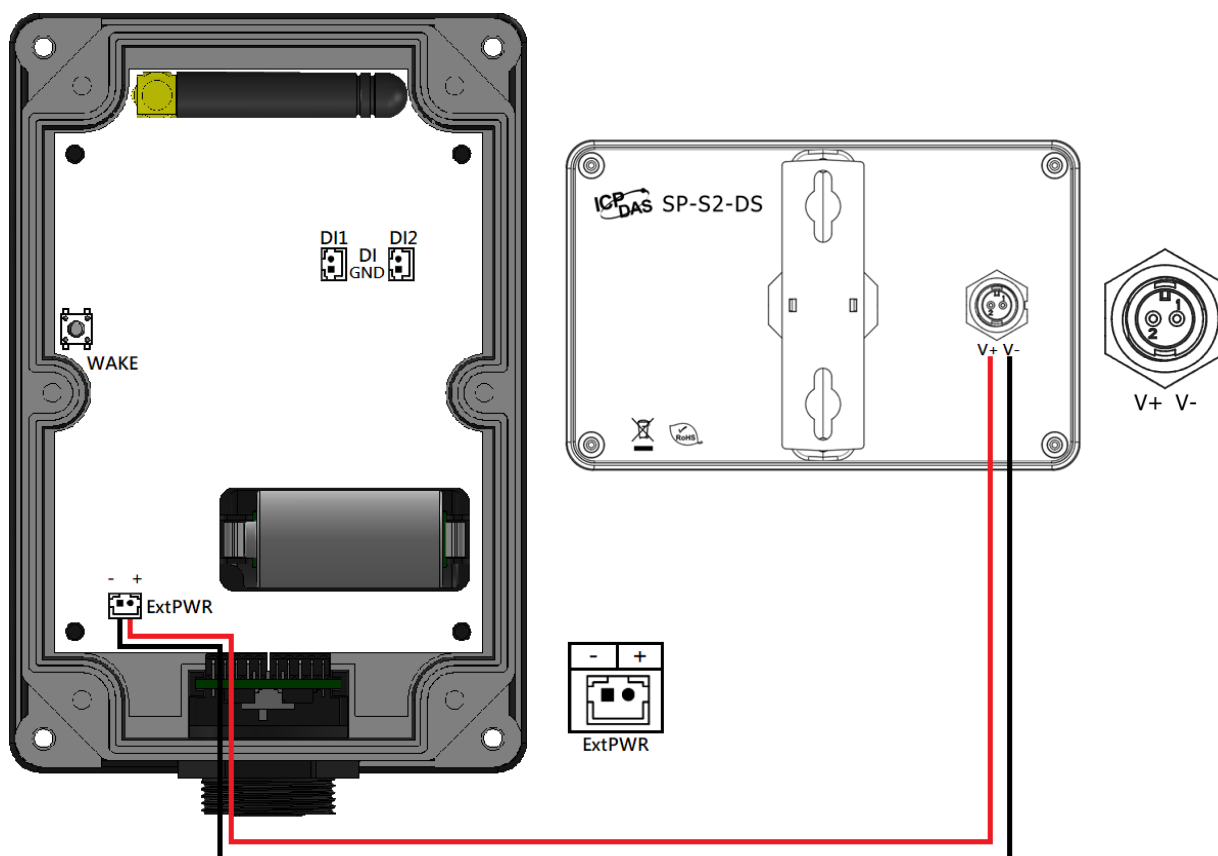


| Name                                                       | Instructions     |      |      |   |   |    |      |   |   |   |
|------------------------------------------------------------|------------------|------|------|---|---|----|------|---|---|---|
| F1                                                         | Reserved         |      |      |   |   |    |      |   |   |   |
| TX Duty<br>(RF transmission duty)<br><br>■ : ON<br>□ : OFF | Period           |      | Pins |   |   |    |      |   |   |   |
|                                                            |                  |      | 5    |   | 6 |    | F2   |   |   |   |
|                                                            | 1 second         |      | □    |   | □ |    | □    |   |   |   |
|                                                            | 10 seconds       |      | ■    |   | □ |    | □    |   |   |   |
|                                                            | 30 seconds       |      | □    |   | ■ |    | □    |   |   |   |
|                                                            | 60 seconds       |      | ■    |   | ■ |    | □    |   |   |   |
|                                                            | 3 minutes        |      | □    |   | □ |    | ■    |   |   |   |
|                                                            | 5 minutes        |      | ■    |   | □ |    | ■    |   |   |   |
|                                                            | 10 minutes       |      | □    |   | ■ |    | ■    |   |   |   |
|                                                            | 30 minutes       |      | ■    |   | ■ |    | ■    |   |   |   |
| RF Ch<br>(RF Channel)<br><br>■ : ON<br>□ : OFF             | Ch               | Pins |      |   |   | Ch | Pins |   |   |   |
|                                                            |                  | 1    | 2    | 3 | 4 |    | 1    | 2 | 3 | 4 |
|                                                            | 0                | □    | □    | □ | □ | 8  | □    | □ | □ | ■ |
|                                                            | 1                | ■    | □    | □ | □ | 9  | ■    | □ | □ | ■ |
|                                                            | 2                | □    | ■    | □ | □ | A  | □    | ■ | □ | ■ |
|                                                            | 3                | ■    | ■    | □ | □ | B  | ■    | ■ | □ | ■ |
|                                                            | 4                | □    | □    | ■ | □ | C  | □    | □ | ■ | ■ |
|                                                            | 5                | ■    | □    | ■ | □ | D  | ■    | □ | ■ | ■ |
|                                                            | 6                | □    | ■    | ■ | □ | E  | □    | ■ | ■ | ■ |
|                                                            | 7                | ■    | ■    | ■ | □ | F  | ■    | ■ | ■ | ■ |
| PA                                                         | Factory use only |      |      |   |   |    |      |   |   |   |
| GID<br>(Group ID)<br><br>■ : ON<br>□ : OFF                 | Group            |      | Pin  |   |   |    |      |   |   |   |
|                                                            |                  |      | 6    |   |   |    | 7    |   |   |   |
|                                                            | 0                |      | □    |   |   |    | □    |   |   |   |
|                                                            | 1                |      | ■    |   |   |    | □    |   |   |   |
|                                                            | 2                |      | □    |   |   |    | ■    |   |   |   |
|                                                            | 3                |      | ■    |   |   |    | ■    |   |   |   |

| Name                             | Instructions |     |   |   |   |    |      |     |   |   |   |   |
|----------------------------------|--------------|-----|---|---|---|----|------|-----|---|---|---|---|
| Node ID<br><br>■ : ON<br>□ : OFF | Node         | Pin |   |   |   |    | Node | Pin |   |   |   |   |
|                                  |              | 1   | 2 | 3 | 4 | 5  |      | 1   | 2 | 3 | 4 | 5 |
|                                  | 0            | □   | □ | □ | □ | □  | 16   | □   | □ | □ | □ | ■ |
|                                  | 1            | ■   | □ | □ | □ | □  | 17   | ■   | □ | □ | □ | ■ |
|                                  | 2            | □   | ■ | □ | □ | □  | 18   | □   | ■ | □ | □ | ■ |
|                                  | 3            | ■   | ■ | □ | □ | □  | 19   | ■   | ■ | □ | □ | ■ |
|                                  | 4            | □   | □ | ■ | □ | □  | 20   | □   | □ | ■ | □ | ■ |
|                                  | 5            | ■   | □ | ■ | □ | □  | 21   | ■   | □ | ■ | □ | ■ |
|                                  | 6            | □   | ■ | ■ | □ | □  | 22   | □   | ■ | ■ | □ | ■ |
|                                  | 7            | ■   | ■ | ■ | □ | □  | 23   | ■   | ■ | ■ | □ | ■ |
|                                  | 8            | □   | □ | □ | ■ | □  | 24   | □   | □ | □ | ■ | ■ |
|                                  | 9            | ■   | □ | □ | ■ | □  | 25   | ■   | □ | □ | ■ | ■ |
|                                  | 10           | □   | ■ | □ | ■ | □  | 26   | □   | ■ | □ | ■ | ■ |
|                                  | 11           | ■   | ■ | □ | ■ | □  | 27   | ■   | ■ | □ | ■ | ■ |
|                                  | 12           | □   | □ | ■ | ■ | □  | 28   | □   | □ | ■ | ■ | ■ |
|                                  | 13           | ■   | □ | ■ | ■ | □  | 29   | ■   | □ | ■ | ■ | ■ |
|                                  | 14           | □   | ■ | ■ | ■ | □  | 30   | □   | ■ | ■ | ■ | ■ |
| 15                               | ■            | ■   | ■ | ■ | □ | 31 | ■    | ■   | ■ | ■ | ■ |   |

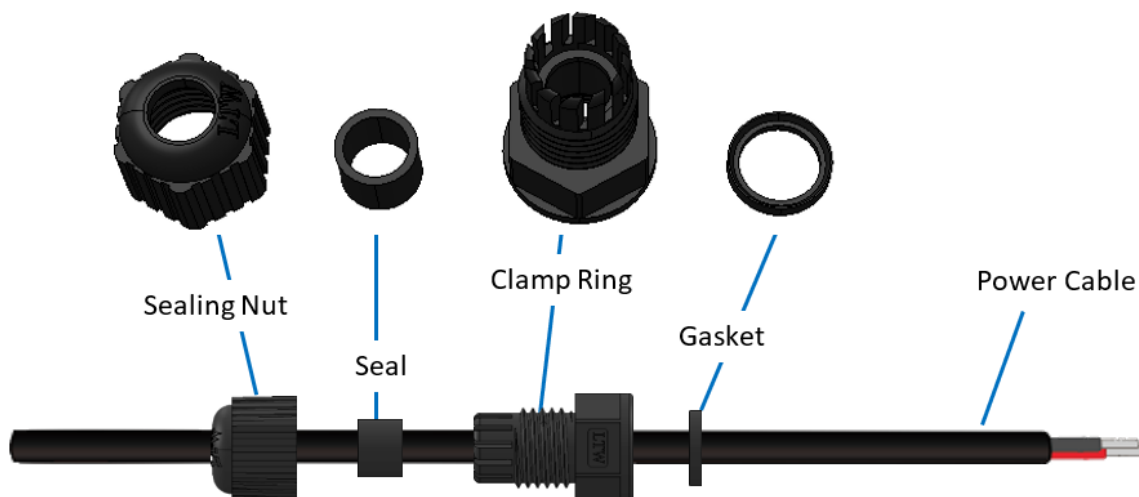
## 4 Connecting the iSOS-309-IP65 and SP-S2-DS

- ❶ Connect the V+ pin of SP-S2-DS to "+" terminal on ExtPWR connector of iSOS-309-IP65, and connect the V- pin to the "-" terminal.



# 5 Installing a waterproof connector on SP-S2-DS

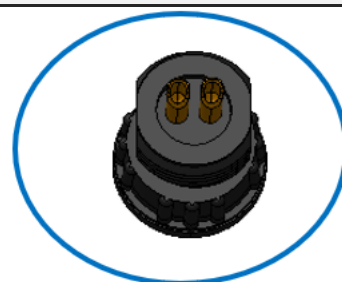
Step 1: Feed the end of the two core power cable through the **Sealing nut**, **Seal**, **Clamp Ring**, **Gasket** and **Lock Nut**.



Step 2: Insert two conductors into the holes on the **Cord Connector**. See the table below for the correct pin-out connections.



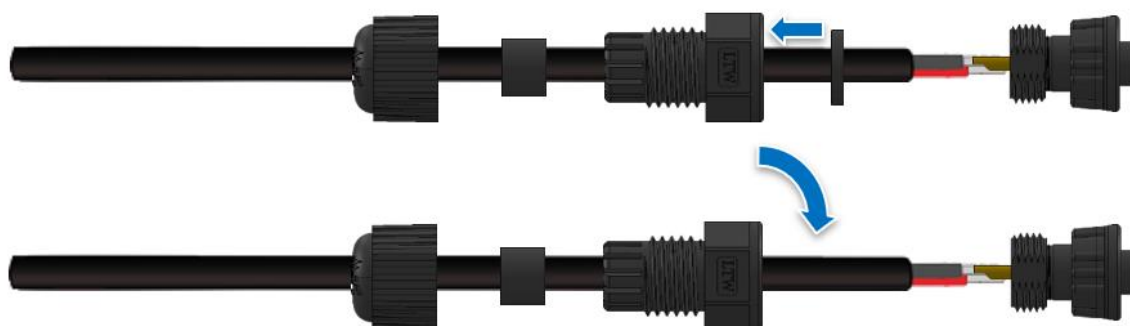
| No. | Pin-out |
|-----|---------|
| 1   | V-      |
| 2   | V+      |



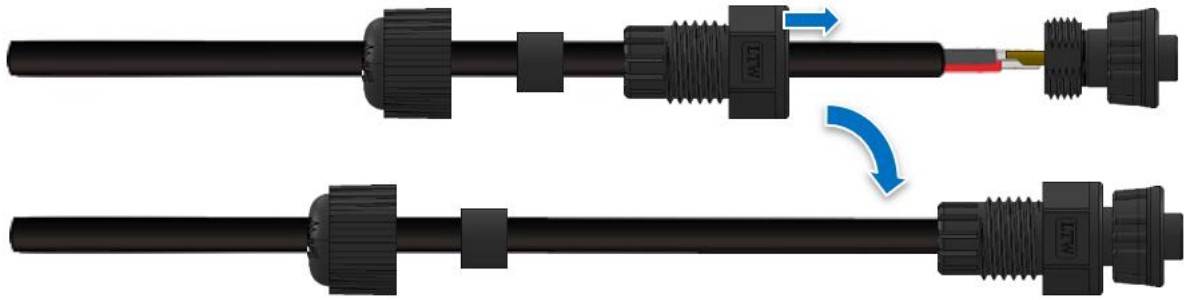
Cord Connector



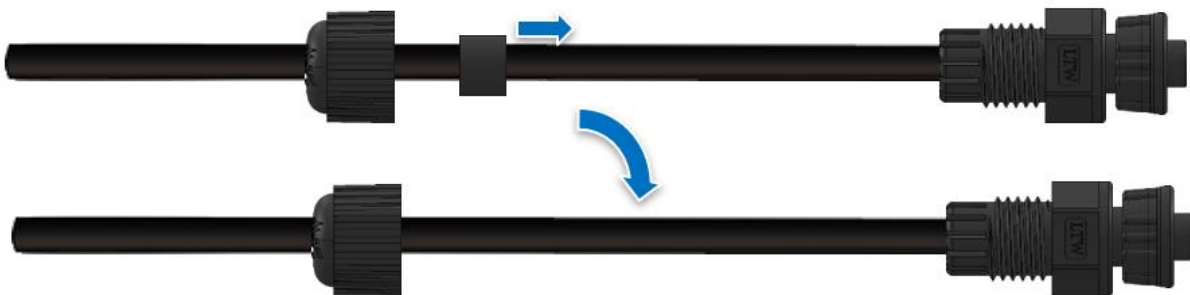
Step 3: Insert the **Gasket** into the **Clamping Ring**.



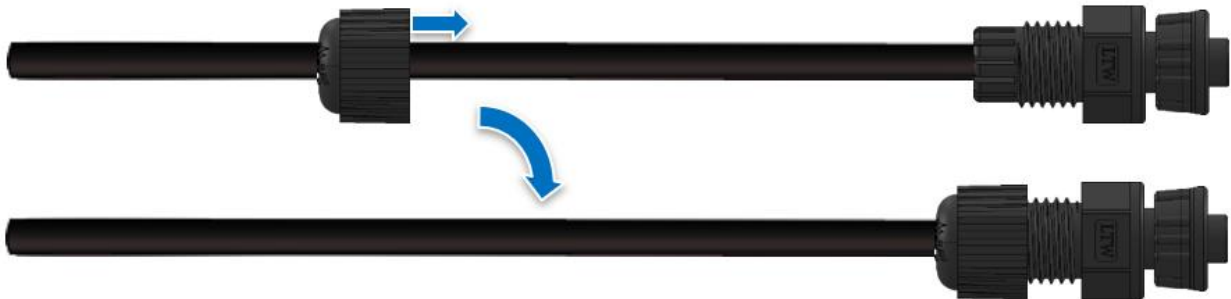
Step 4: Wrap the **Clamp Ring** around the **Cord Connector**.



Step 5: Insert the **Seal** into the **Clamp Ring**.



Step 6: Push the Sealing Nut forward and Hand-tighten it to seal the assembly.



Step 7: Wrap the **O-Ring** around the **Cord Connector**.

