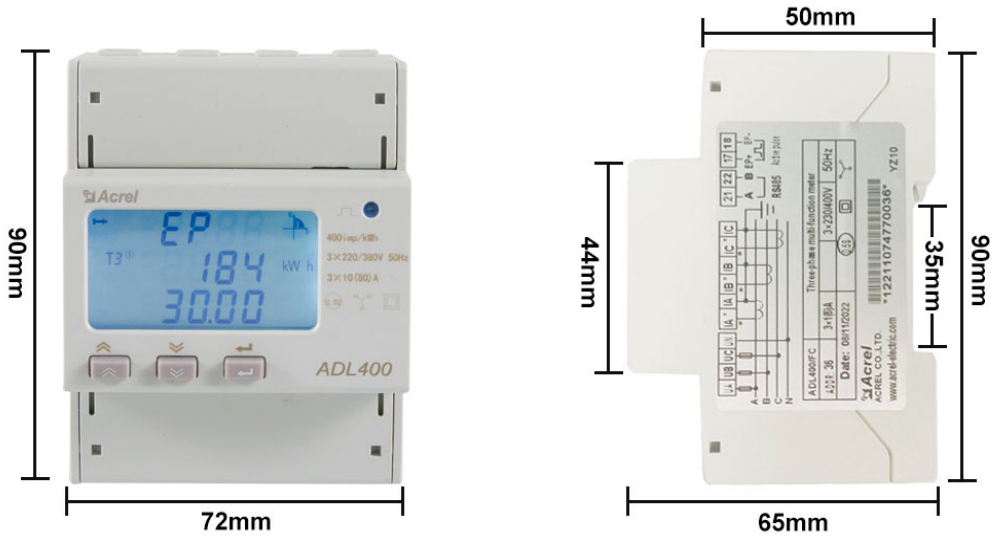
Author: Loki Elfin
E-mail: loki@acrel.cn
Website: www.acrel-electric.fr

## 0. Installation Dimension

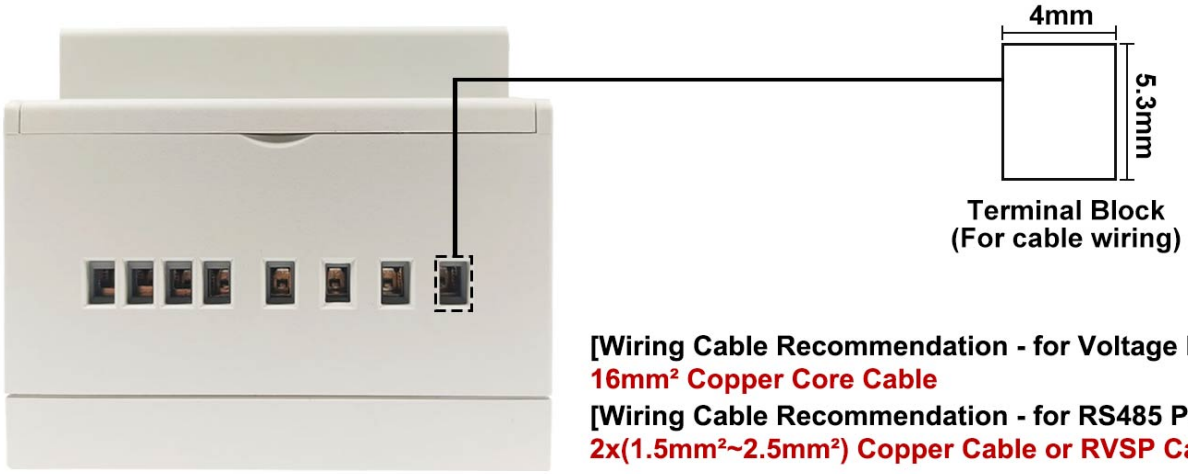
Dimension of necessary hardware including:

(1) ADL400 3-phase DIN-Rail Energy Meter (Main Body&Terminal Block/PIN)

(2) AKH-0.66/K K-φ Series Current Transformer (Main Body + Output Cable)

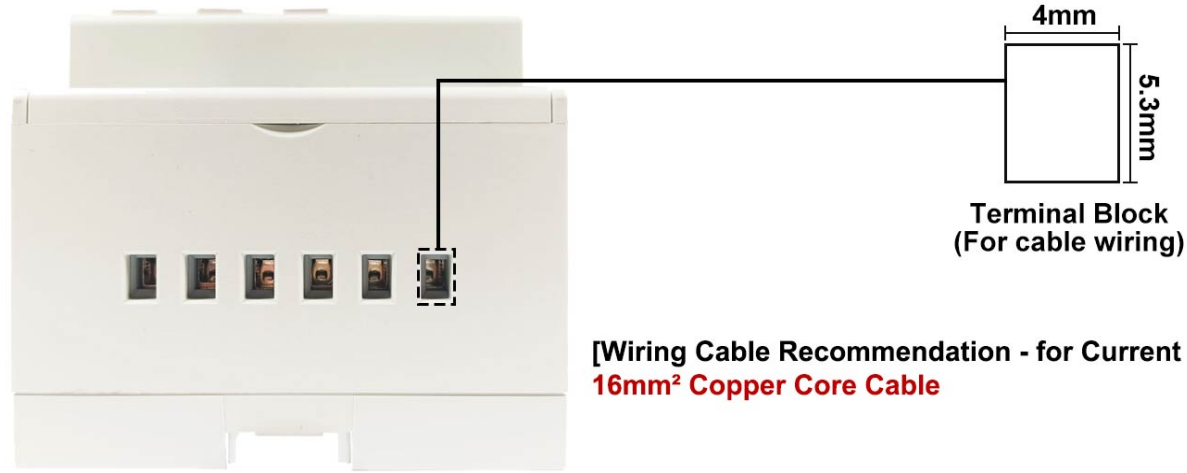



(1) Dimension of Main Body of ADL400




**[Wiring Cable Recommendation - for Voltage In. PIN UA~UN]:**
**16mm² Copper Core Cable**
**[Wiring Cable Recommendation - for RS485 Port PIN21~22]:**
**2x(1.5mm²~2.5mm²) Copper Cable or RVSP Cable**

(1) Dimension of Upside Terminal Block of ADL400 [for Volatge In. & RS485 Wiring]




**[Wiring Cable Recommendation - for Current In. PIN IA*~IC]:**
**16mm² Copper Core Cable**

(1) Dimension of Downside Terminal Block of ADL400 [for Current In. Wiring]



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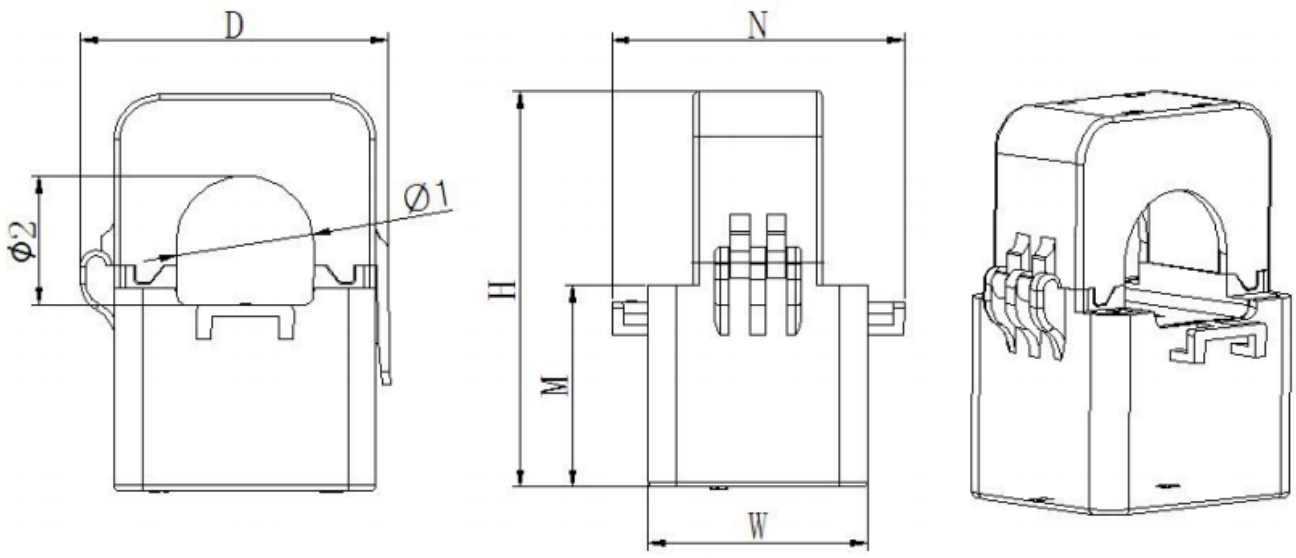
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## 0. Installation Dimension

Dimension of necessary hardware including:

(1) ADL400 3-phase DIN-Rail Energy Meter (Main Body&Terminal Block/PIN)

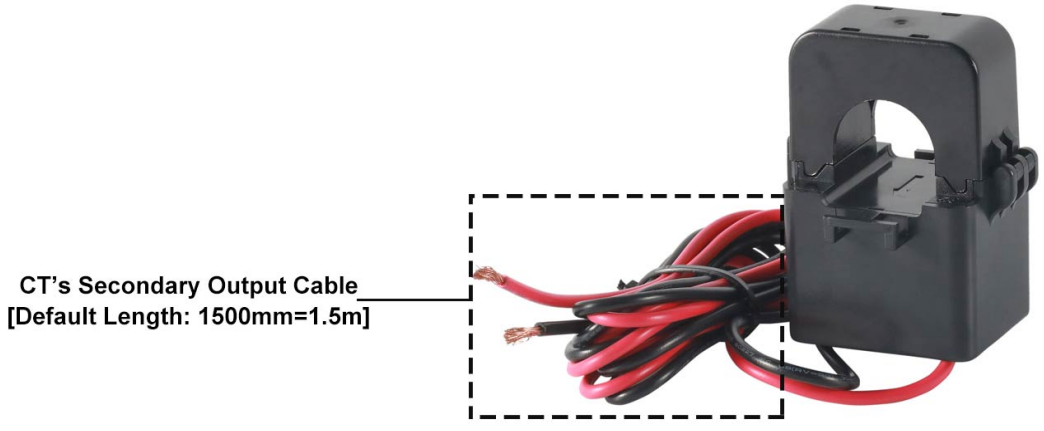
(2) AKH-0.66/K K-φ Series Current Transformer (Main Body + Output Cable)




Note: Primary current flow from P1 to P2. The black second wiring is S2,the red is S1.The outlet length is 1m ± 10cm.

| Size (mm) / Type | Outline size | | | | | Through size | | Tolerance |
|---|---|---|---|---|---|---|---|---|
| | W | H | D | M | N | Φ1 | Φ2 | |
| K-Φ24 | 39 | 70.5 | 55 | 36 | 52 | 24.5 | 23 | ±1 |
| K-Φ36 | 42.5 | 81.5 | 67 | 40 | 56 | 33.5 | 35 | |
| K-Φ50 | 46.5 | 110 | 90 | 54 | 66.5 | 47 | 52 | |

(2) Dimension of Main Body of AKH-0.66/K K-φ Series




(2) Dimension of Secondary Output Cable of AKH-0.66/K K-φ Series



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## 1. Wiring Illustration

Only 2 parts of wiring was necessary for wiring of ADL400

(1) Voltage Signal Input Wiring of ADL400: Use PIN UA, UB, UC, UN on ADL400 for 3-phase voltage input respectively. Noted that you need to short PIN UB & PIN UN. [3-phase 3-wire wiring methods.]

(2) Current Signal Input Wiring of ADL400: Use PIN IA*, IA, IC*, IC for 3-phase current input respectively [3-phase 3-wire wiring methods]

Note #1: The installed direction (P1→P2) of CTs must be according to the actual forward current/ energy direction.




**1**

**Terminal/PIN for Voltage Input**

① PIN #UA: Phase A Voltage Input
② PIN #UB: Phase B Voltage Input
③ PIN #UC: Phase C Voltage Input
④ PIN #UN: Neutral Voltage Input

| UA | UB | UC | UN |
|---|---|---|---|
| A | B | C | N |

**2**

**Terminal/PIN for Current In.&Out.**

① PIN #IA*: Phase A Current In.
② PIN #IA: Phase A Current Out.
③ PIN #IB*: Phase B Current In.
④ PIN #IB: Phase B Current Out.
⑤ PIN #IC*: Phase C Current In.
⑥ PIN #IC: Phase C Current Out.

| IA* | IA | IB* | IB | IC* | IC |
|---|---|---|---|---|---|
| in. | out. | in. | out. | in. | out. |
| A | A | B | B | C | C |

**3**

**Terminal/PIN for RS485 Interface**

① PIN #21: RS485 Port A+
② PIN #22: RS485 Port B-

| 21 | 22 |
|---|---|
| + | - |
| A | B |

**4**

**Terminal/PIN for Pulse Output**

① PIN #17: Positive Pulse Output
② PIN #18: Negative Pulse Output

| 17 | 18 |
|---|---|
| + | - |
| Ep | Ep |

PIN Overview of ADL400
[CT Operated Ver.]



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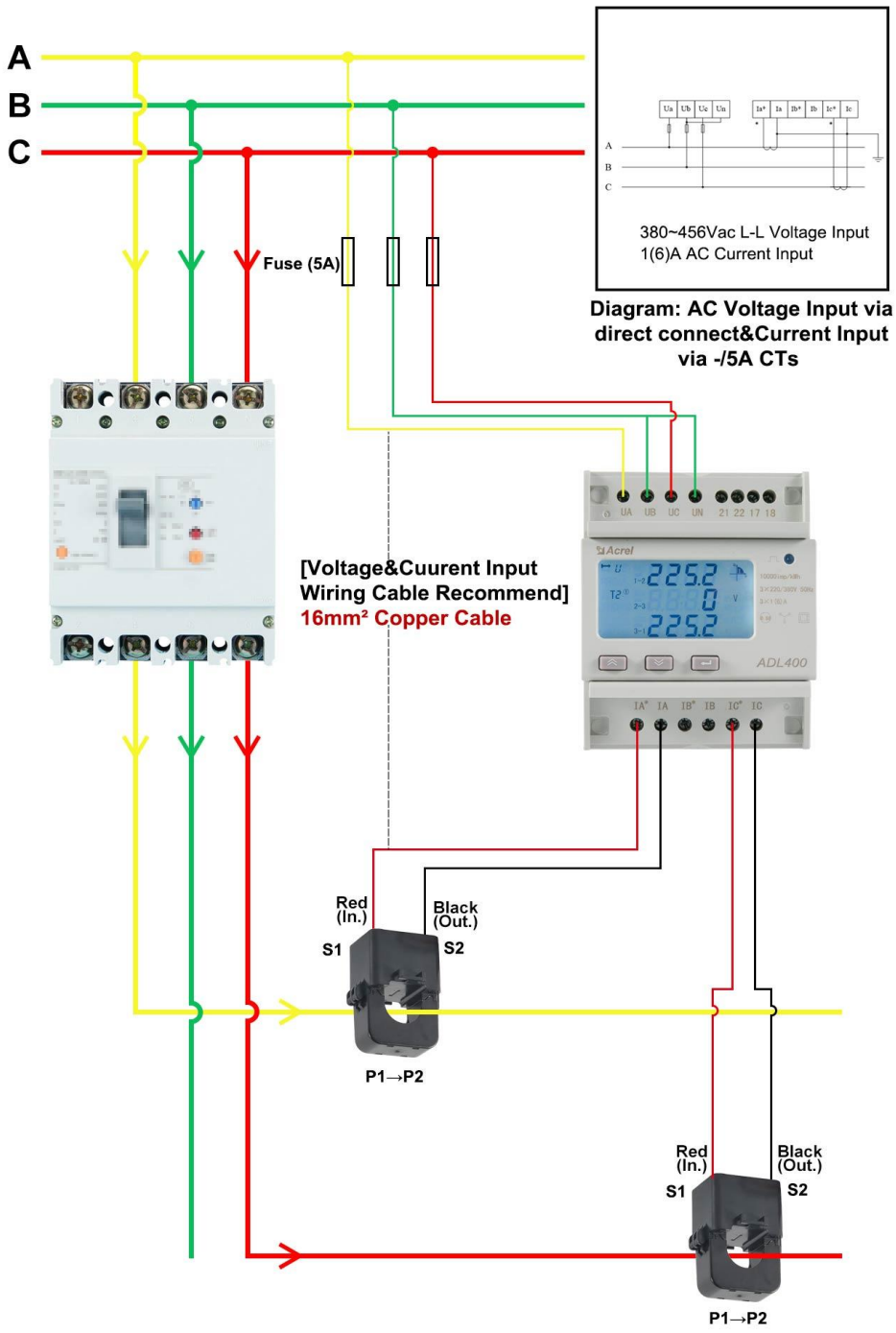
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## 1. Wiring Illustration

(1) Voltage Signal Input Wiring of ADL400: Use PIN UA, UB, UC, UN on ADL400 for 3-phase voltage input respectively. Noted that you need to short PIN UB & PIN UN. [3-phase 3-wire wiring methods.]

(2) Current Signal Input Wiring of ADL400: Use PIN IA*, IA, IC*, IC for 3-phase current input respectively [3-phase 3-wire wiring methods]. (PIN IA*, IC* on ADL400 connected to red wire (also S1 side) of 2 CTs respectively, PIN IA, IC on ADL400 connected to black wire (also S2 Side) of 2 CTs respectively.

Note #1: The installed direction (P1→P2) of CTs must be according to the actual forward current/ energy direction.




(1) Power Wiring of ADL400

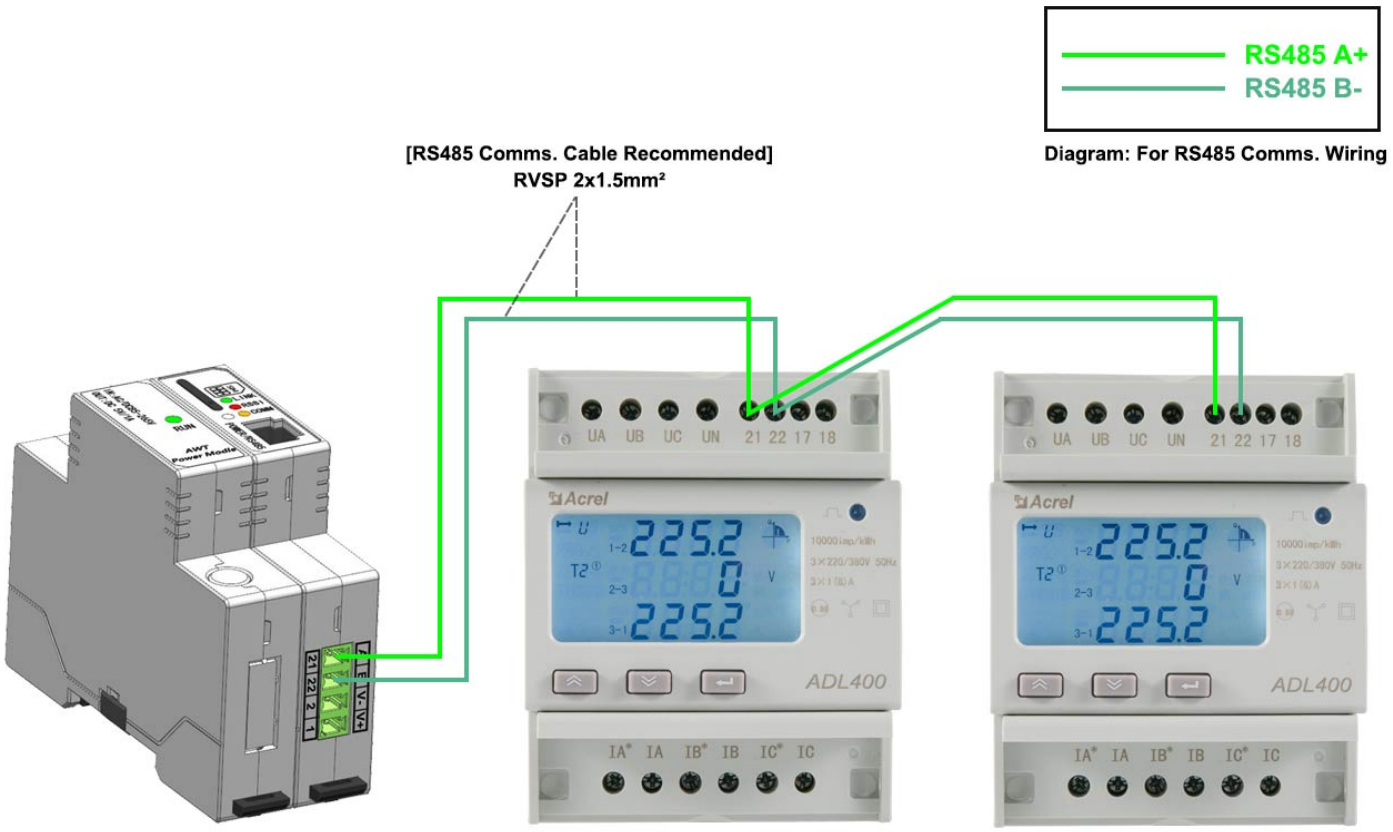


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## 1. Wiring Illustration

(3) RS485 Communnication Wiring between ADL400 and upstream devices [Take AWT100 Series IoT Gateway for exmaple]: PIN 21 of AWT100-4GHW connected to PIN 21 of first ADL400 to PIN 21 of secADLond ADL400 and to PIN 21 of last ADL400. (So does the connection of PIN 22)




(3) RS485 Communication Wiring between ADL400&AWT100-4GHW


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