MODEL 385 COMMON WIRING DIAGRAMS

This configuration document contains a collection of Model 385 common wiring diagrams. These diagrams should be helpful when preparing individual wiring diagrams since they include examples of most of the basic wiring considerations. Refer to the service document, SD385, in Section 4 of this manual for more details on Model 385 electrical connections.

The following is a list of the diagrams covered in this document:

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# MODEL 385 REAR TERMINAL ASSIGNMENTS

<table>
<thead>
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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<tr>
<td>H</td>
<td>AC SUPPLY HOT OR DC (+)</td>
<td>LINK (+)</td>
<td>LOOP</td>
<td>LOOP INPUT 1 (+)</td>
</tr>
<tr>
<td>N</td>
<td>AC SUPPLY NEUTRAL OR DC (–)</td>
<td>LINK (–)</td>
<td>LOOP INPUT COMMON (–)</td>
<td>LOOP INPUT 6 (+)</td>
</tr>
<tr>
<td>G</td>
<td>CASE SAFETY GROUND</td>
<td>NO CONNECTION</td>
<td>LOOP INPUT 2 (+)</td>
<td>LOOP INPUT 7 (+)</td>
</tr>
<tr>
<td>4</td>
<td>ANALOG INPUT 1 (+)</td>
<td>DIGITAL OUTPUT 1 (+)</td>
<td>LOOP INPUT 3 (+)</td>
<td>LOOP INPUT 8 (+)</td>
</tr>
<tr>
<td>5</td>
<td>ANALOG INPUT COMMON (–)</td>
<td>24 VDC 80mA MAX SUPPLY</td>
<td>LOOP INPUT COMMON (–)</td>
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<td>6</td>
<td>ANALOG INPUT 2 (+)</td>
<td>DIGITAL OUTPUT 2 (+)</td>
<td>LOOP INPUT 4 (+)</td>
<td>LOOP INPUT 10 (+)</td>
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<td>LOOP INPUT 5 (+)</td>
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<td>DIGITAL OUTPUT 6 (+)</td>
<td>DIGITAL INPUT (–)</td>
<td>DIGITAL OUTPUT 4 (+)</td>
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<tr>
<td>10</td>
<td>DIGITAL OUTPUT COMMON (–)</td>
<td>DIGITAL OUTPUT (–)</td>
<td>DIGITAL OUTPUT COMMON (–)</td>
<td>DIGITAL OUTPUT COMMON (–)</td>
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* ONLY ACTIVE ON MODEL 385H

**NOTES:**

ALL COMMON (–)S INTERNALLY CONNECTED.
CASE SAFETY GROUND NOT TIED TO COMMON (–)S.
DIGITAL INPUT (–) ISOLATED FROM STATION COMMON.

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DRAWING NO. : W385
MODEL 385 WIRING DIAGRAMS

MODEL 385 2-WIRE TRANSMITTER LOOP CONFIGURED FOR TRANSMITTER CONTROLLER & EXTERNAL POWER SUPPLY

NOTES:
NINE SIMILAR LOOPS MAY BE CONFIGURED FOR THIS STATION USING TERMINALS C3 TO D10 (SEE DIAGRAM W385) AND THE SAME EXTERNAL POWER SUPPLY.
ANY ONE COMMON MAY BE TIED TO GROUND.

DRAWING NO. : W385-1
MODEL 385 WIRING DIAGRAMS

MODEL 385 2-WIRE TRANSMITTER LOOP CONFIGURED FOR TRANSMITTER CONTROLLER & STATION POWER SUPPLY

NOTES:
THREE SIMILAR LOOPS MAY BE CONFIGURED FOR THIS STATION USING TERMINALS C3 TO D10 (SEE DIAGRAM W385) AND THE STATION POWER SUPPLY.
TEN LOOPS TOTAL CAN BE CONFIGURED AS INPUTS TO THE 385.
ANY ONE COMMON MAY BE TIED TO GROUND.

DRAWING NO. : W385-2
MODEL 385 WIRING DIAGRAMS

MODEL 385 2-WIRE TRANSMITTER LOOP CONFIGURED FOR TRANSMITTER & STATION POWER SUPPLY

NOTES:
THREE SIMILAR LOOPS MAY BE CONFIGURED FOR THIS STATION USING TERMINALS C3 TO D10 (SEE DIAGRAM W385) AND THE STATION POWER SUPPLY. TEN LOOPS TOTAL CAN BE CONFIGURED AS INPUTS TO THE 385.
ANY ONE COMMON MAY BE TIED TO GROUND.
NO RESISTOR NEEDED ON 352 IF HARDWIRED AS SHOWN. 385 AND 352 MUST BE IN CLOSE PROXIMITY INFORMATION PASSED TO CONTROLLER CAN BE PASSED VIA THE LOCAL INSTRUMENT LINK INSTEAD OF HARDWIRING AS SHOWN.

DRAWING NO. : W385-3
MODEL 385 WIRING DIAGRAMS

MODELS 385 CONFIGURED FOR EXTERNAL ALARM ACKNOWLEDGE

NOTES:
NORMAL TRANSMITTER CONNECTIONS SHOULD ALSO BE MADE (SEE DIAGRAMS W385-1 TO W385-3).
ACTUAL USE DEPENDENT UPON 385 CONFIGURATION.
ANY ONE COMMON MAY BE TIED TO GROUND.
EXTERNAL ALARM ACKNOWLEDGE ONLY ONE EXAMPLE OF USE FOR DIGITAL INPUT.

DRAWING NO. : W385-4
MODEL 385 WIRING DIAGRAMS

MODEL 385 CONFIGURED FOR EXTERNAL ALARM ANNUNCIATION

NOTES:
NORMAL TRANSMITTER CONNECTIONS SHOULD ALSO BE MADE (SEE DIAGRAMS W386-1 TO W386-5).
ACTUAL USE DEPENDENT UPON 385 CONFIGURATION.
ANY ONE COMMON MAY BE TIED TO GROUND.
EXTERNAL ALARM ANNUNCIATION ONLY ONE EXAMPLE OF USE FOR DIGITAL OUTPUT.

Internal view of 385 Digital Output

B4
B7

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DRAWING NO.: W385-5
MODEL 385 WIRING DIAGRAMS

85 to 264 VAC
47 to 63 Hz

A B
H 1
N 2
G 3
4 4
5 5
6 6
7 7
8 8
9 9
10 10

C D
1 1
2 2
3 3
4 4
5 5
6 6
7 7
8 8
9 9
10 10

28 Vdc, 80mA

MODEL 385 CONFIGURED FOR EXTERNAL RELAY LOAD

NOTES:
NORMAL TRANSMITTER CONNECTIONS SHOULD ALSO BE MADE (SEE DIAGRAMS W385-1 TO W385-3).
ACTUAL USE DEPENDENT UPON 385 CONFIGURATION.
ANY ONE COMMON MAY BE TIED TO GROUND.
TRANSIENT SUPPRESSION DIODE (N4006 OR EQUIVALENT).

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DRAWING NO.: W385-6
MODEL 385 WIRING DIAGRAMS

MODEL 385 2-WIRE TRANSMITTER LOOP CONFIGURED FOR MODEL 348 FIELD PAC

NOTES:
NINE SIMILAR LOOPS MAY BE CONFIGURED FOR THIS STATION USING TERMINALS C3 TO D10
TEN LOOPS TOTAL CAN BE CONFIGURED AS INPUTS TO THE 385.
ANY ONE COMMON MAY BE TIED TO GROUND.
WHEN THE 348 IS USING TWO LOOPS IN THE 385, THE 348 NEEDS TO BE WIRED ONLY ONCE TO
THE 385. REFER TO CG385-2 FOR PROPER CONFIGURATION.