

AccuPro 7000-TS™ Measurement System Quick-Start Installation Guide

The AccuPro 7000-TS™ Measurement System is comprised of a Control-Panel and Scale-Base subsystem. This Quick-Start Guide describes the steps necessary to prepare and install the Control-Panel subsystem.

IMPORTANT

- **The Control-Panel is a precision instrument that has been functionally tested and programmed to a specified Scale-Base at the factory.**
- **The installation procedure requires that internal circuitry be accessed. All precautions must be taken to prevent unwanted Electro-Static Discharge events with the equipment.**
- **All safety precautions need to be observed for safe operation.**
- **Disconnect main power to the Control-Panel before making any wiring connections.**
- **Failure to operate this equipment as instructed can result in damage to the equipment and possibly cause personal injury.**
- **Any equipment damage resulting from improper operation or non-adherence to these, and all requirements will not be considered for warranty coverage.**
- **Reference AccuPro-7000™ Measurement System Operator Manual for additional details.**
- **It is recommended that the Control-Panel be operated in a manner that protects it from being soaked with liquids or exposed to extreme weather conditions. If the system is to be located outdoors, make sure not to exceed the operational temperature range and be covered to protect the indicator from the elements.**

- Step 1:** Carefully unpack all parts from the box and inspect for visual damage. **Report any shipping damage to the carrier.**
- Step 2:** Refer to Scale Base installation instructions and complete scale base installation, then proceed to step 3.
- Step 3:** Take care to identify the location of the terminal block connections to determine the optimal cable-routing arrangement **before** drilling holes in the enclosure for the Scale-Base fittings or conduit. Be careful when drilling holes to avoid any damage to internal components or cabling.
- Step 4:** All drilled holes **MUST** be sealed to prevent both liquids and gasses from penetrating the enclosure and damaging the electronics. It is recommended that all fittings be liquid-tight and 4X NEMA rated, and any gaps be filled with silicon-based caulk to seal the opening and eliminate exposure.
- Step 5:** Connect the load-cell wires from the scale base to the respective terminal block strip (Terminal 1/2/3/4) (**SEE PAGE 3-5 FOR CONNECTION INFORMATION**):
- Red: Excitation (+)
 - Green: Signal (+)
 - White: Signal Return (-)
 - Black: Excitation Return (-)
 - Violet: Shield
- Step 6:** **If equipped with spill sensor (PN: 4042SA/4042-SAL),** connect wires from the spill sensor to the spill sensor terminal block strip 4 (**SEE PAGE 3-5 FOR CONNECTION INFORMATION**):
- Black: N.O
 - White: COM

Step 7: *If equipped with options:* take care to identify the location of the relay modules to determine the optimal cable-routing arrangement **before** drilling holes in the enclosure for the fittings or conduit. Be careful when drilling holes to avoid any damage to internal components or cabling. Connect applicable wires to the relay terminal blocks. (SEE PAGE 3-5 FOR CONNECTION INFORMATION):

- NO: Normally-Open Contact
- COM: Common Contact
- NC: Normally-Closed Contact

Step 8: Connect to the 4-20mA output connection, terminals 5/6. Take care to identify the location of the terminal strip to determine the optimal cable-routing arrangement **before** drilling holes in the enclosure for the fittings or conduit. Be careful when drilling holes to avoid any damage to internal components or cabling. Connect the applicable wires using the following code. (SEE PAGE 3-5 FOR CONNECTION INFORMATION):

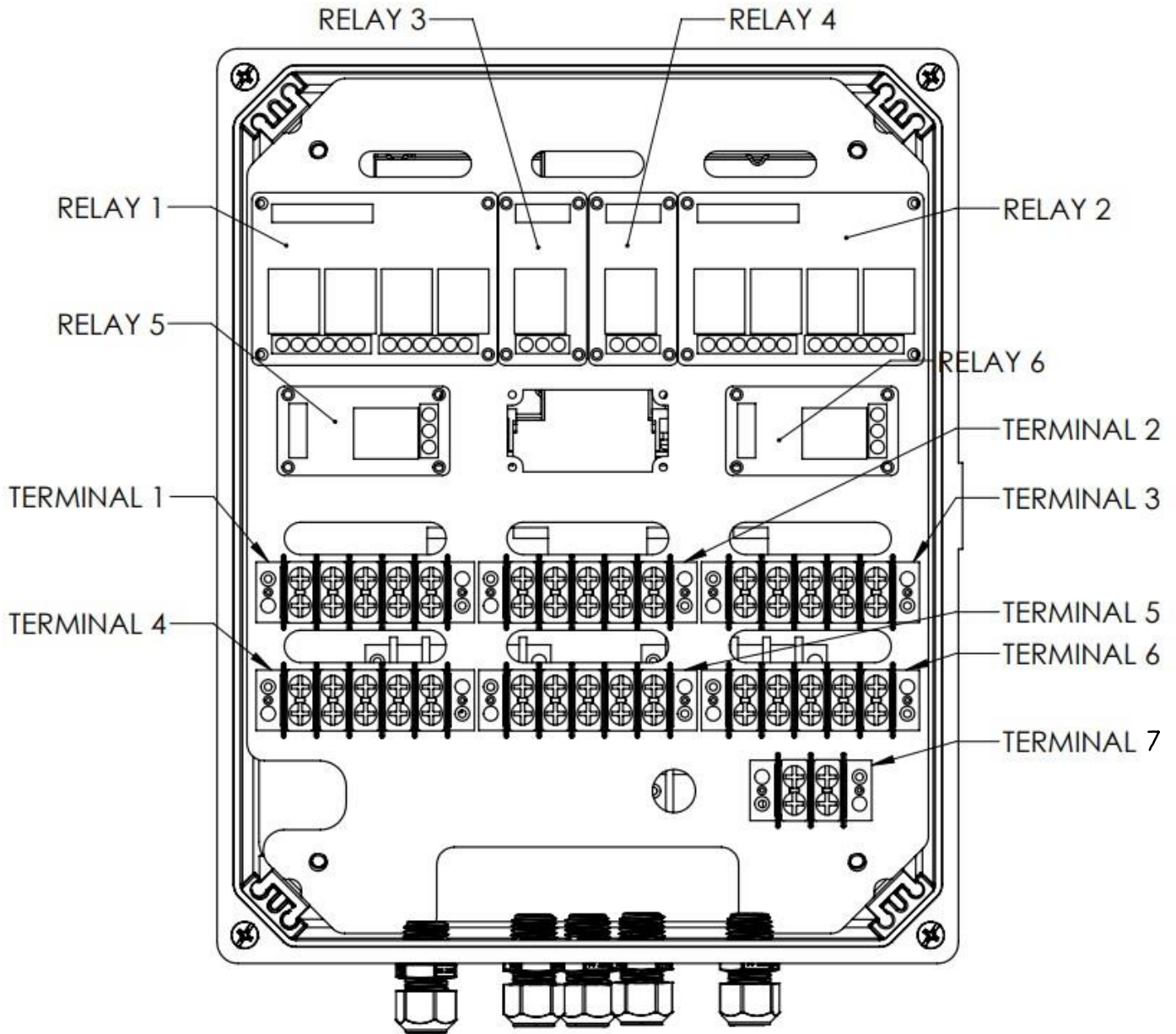
- (+): Signal (+)
- (-): Signal (-) Return

Step 9: Secure the Control-Panel cover by closing the latch and installing (4) screws located at the corners.

Step 10: Mount the Control-Panel to a wall using the four holes in the corner flanges of the enclosure. It should be mounted at operational level and away from the floor. Though the enclosure is 4X NEMA rated, it is not designed to withstand wash-down procedures nor chemical contact beyond accidental exposure. Avoid direct contact with chemicals or regular soaking of water as it may cause substantial damage to the electronics. Connect main power to the AccuPro 7000-TS™ Measurement System.

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Terminal 1	CH1 Base	Inputs
1	E+	Excitation (+)
2	S+	Signal (+)
3	S-	Signal Return (-)
4	E-	Excitation Return (-)
5	SHD	Shield

Terminal 2	CH2 Base	Inputs
6	E+	Excitation (+)
7	S+	Signal (+)
8	S-	Signal Return (-)
9	E-	Excitation Return (-)
10	SHD	Shield

Terminal 3	CH3 Base	Inputs
11	E+	Excitation (+)
12	S+	Signal (+)
13	S-	Signal Return (-)
14	E-	Excitation Return (-)
15	SHD	Shield

Terminal 4	CH4 Base	Inputs
16	E+	Excitation (+)
17	S+	Signal (+)
18	S-	Signal Return (-)
19	E-	Excitation Return (-)
20	SHD	Shield

Terminal 5	CH1-2 4-20 mA Out	Outputs
21	CH1 Signal (+)	Net Wt or Feed Rt (+)
22	CH1 Signal Return (-)	Net Wt or Feed Rt (-)
23	CH2 Signal (+)	Net Wt or Feed Rt (+)
24	CH2 Signal Return (-)	Net Wt or Feed Rt (-)
25	NA	

Terminal 6	CH3-4 4-20 mA Out	Outputs
26	CH3 Signal (+)	Net Wt or Feed Rt (+)
27	CH3 Signal Return (-)	Net Wt or Feed Rt (-)
28	CH4 Signal (+)	Net Wt or Feed Rt (+)
29	CH4 Signal Return (-)	Net Wt or Feed Rt (-)
30	NA	

Terminal 7	Leak Detector	Inputs
31	COM	COM
32	NO	NO



1 or 2 Channel Indicator		
Relay 1	CH1 SPS	SP#
44	NC1	1
43	COM1	1
42	NO1	1
41	NC2	2
40	COM2	2
39	NO2	2
38	NC3	3
37	COM3	3
36	NO3	3
35	NC4	4
34	COM4	4
33	NO4	4
Relay 2	CH2 SPS	SP#
56	NC1	1
55	COM1	1
54	NO1	1
53	NC2	2
52	COM2	2
51	NO2	2
50	NC3	3
49	COM3	3
48	NO3	3
47	NC4	4
46	COM4	4
45	NO4	4

Relay 3	External Buzzer
57	NO
58	COM
59	NC

Relay 5	Weight SP Active
63	NO
64	COM
65	NC

3 or 4 Channel Indicator		
Relay 1	CH1 SPS	SP#
44	NC1	1
43	COM1	1
42	NO1	1
41	NC2	2
40	COM2	2
39	NO2	2
	CH2 SPS	
38	NC3	1
37	COM3	1
36	NO3	1
35	NC4	2
34	COM4	2
33	NO4	2
Relay 2	CH3 SPS	SP#
56	NC1	1
55	COM1	1
54	NO1	1
53	NC2	2
52	COM2	2
51	NO2	2
	CH4 SPS	
50	NC3	1
49	COM3	1
48	NO3	1
47	NC4	2
46	COM4	2
45	NO4	2

Relay 4	Alarm Active
60	NO
61	COM
62	NC

Relay 6	Max Net Weight
66	NO
67	COM
68	NC