Technical Assistance: *(800)257-5911 or (215)766-2670*
Email: info@scaletronscales.com

AccuPro-5000™ Measurement System Quick-Start Installation Guide

The AccuPro-5000™ 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-5000™ 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 Load-Cell and optional Leak-Detect Sensor wire connections to the Analog Input Board(s) 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: Carefully remove the respective Analog Input Board to connect the load-cell wires from the scale base *(SEE PG 3 WIRING DIAGRAM):*

- Green: (+) Signal
- White: (-) Signal
- Red: (+) Excitation Voltage
- Black: (-) Excitation Voltage
- Violet: Shield (Connect to earth-ground, metal bracket)

Step 6: ***If equipped with spill sensor (PN: 4042SA/4042-SAL),*** connect wires from the spill sensor to the Analog Input Board using the following code, then return the board to its respective slot *(SEE PG 3 WIRING DIAGRAM):*

- +5V: (+) 5V
- /LD: (-) Leak-Detect
- GND: (+) Ground

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Step 7: ***If equipped with Set Point option (5000-SP2/5000-SP4):*** take care to identify the location of the relay contact wire connections to the Relay Output Board (s) 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. Carefully remove the respective Relay Output Board to connect the applicable wires using the following code, then return the board to its respective slot *(SEE PG 3 WIRING DIAGRAM):*

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

Step 8: Analog Output Board (4-20 mA): take care to identify the location of the current loop wire connections to the respective board(s) 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. Carefully remove the respective Analog Output Board to connect the applicable wires using the following code, then return the board to its respective slot *(SEE PG 3 WIRING DIAGRAM):*

- (+): Current Output
- (-): Current Return

******IMPORTANT***** ***Position the loop-Power Selector slide switch to reveal "SCALE" if power is to be supplied internally by the AccuPro-5000™, or "LOOP" if power is to be supplied externally. Shipped in Scale Power position.***

Step 9: ***If equipped with Voltage Out option (PN: 5000-VO):*** take care to identify the location of the voltage output wire connections to the respective board(s) to determine the optimal cable-routing arrangement ***before*** drilling holes in the enclosure for the fittings or conduit. *(SEE PG 3 WIRING DIAGRAM)* Be careful when drilling holes to avoid any damage to internal components or cabling. Carefully remove the respective Analog Output Board to connect the applicable wires using the following code, then return the board to its respective slot:

- (+): (+) Voltage Output
- (-): (-) Voltage Output

Step 10: Position the AccuPro5000™ Mode slider-switch, located on the Main Processor Board, to reveal "RUN".

Step 11: Secure the Control-Panel cover by closing the latch and installing (4) screws located at the corners.

Step 12: 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-5000™ Measurement System.

DOWNLOAD FULL OEM MANUAL FROM OUR WEBSITE:

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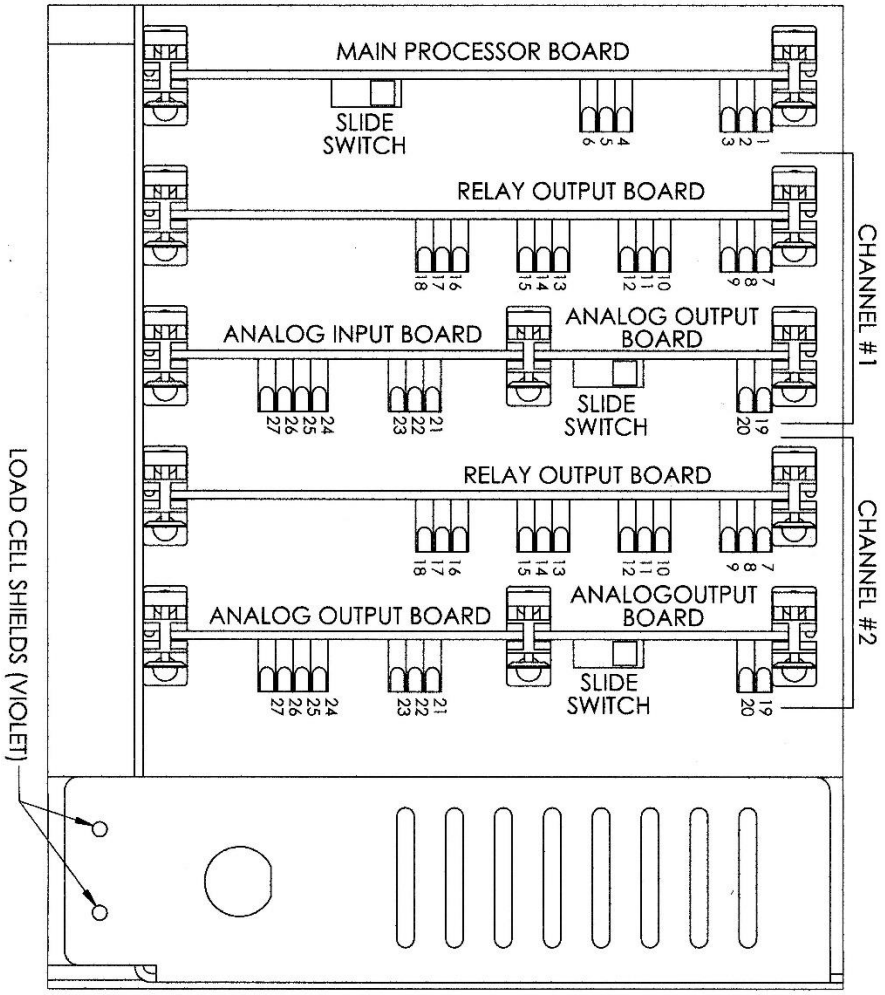
REF	CONTACT DESCRIPTION	FUNCTION
1	Normally-Open Contact	External Alarm Relay (Main Processor Board)
2	Common Contact	
3	Normally-Closed Contact	
4	Serial Input Contact	RS-232 Serial Output (Main Processor Board)
5	Serial Output Contact	
6	Digital Ground Contact	
7	Normally-Open Contact	Setpoint #1 Relay (Relay Output Board) (Dual or Quad)
8	Common Contact	
9	Normally-Closed Contact	
10	Normally-Open Contact	Setpoint #2 Relay (Relay Output Board) (Dual or Quad)
11	Common Contact	
12	Normally-Closed Contact	
13	Normally-Open Contact	Setpoint #3 Relay (Relay Output Board) (Quad Only)
14	Common Contact	
15	Normally-Closed Contact	
16	Normally-Open Contact	Setpoint #4 Relay (Relay Output Board) (Quad Only)
17	Common Contact	
18	Normally-Closed Contact	
19	4mA – 20mA Output Contact	4mA – 20mA Current Loop (Analog Output Board)
20	4mA – 20mA Return Contact	
21	Digital Ground Contact	Leak Detect Sensor (Analog Input Board)
22	Active-Low Sensor Contact	
23	+5V Contact	
24	Excitation Voltage (+) Contact / Red	Load-Cell (Analog Input Board)
25	Load-Cell (+) Contact / Green	
26	Load-Cell (-) Contact / White	
27	Excitation Voltage (-) Contact / Black	



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