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AccuPro 1000 Quick Start Installation Guide

IMPORTANT

- *The AccuPro 1000 is fully tested and calibrated from factory.*
- *Disconnect main power before any wiring and use proper ESD precautions. Installation requires opening the panel and accessing internal circuits.*
- *Operate only as instructed to avoid equipment damage, personal injury, or denial of warranty.*
- *Protect the enclosure from liquids, extreme temperatures, and direct weather exposure when installed outdoors.*

Step 1: Unpack

Carefully unpack all parts from the box and inspect for visual damage. Report any shipping damage to the carrier.

Step 2: Install Scale Base

Each scale base must be connected to the indicator with its matching serial number for proper operation. If a scale base is connected to an indicator with a different serial number, display weight will be incorrect and the warranty may be voided. Refer to Scale Base Installation Instructions to complete scale base installation.

Step 3: Drill Holes

Identify the location of the user connections inside the enclosure to determine the optimal cable routing arrangement before drilling holes in the enclosure for Scale Base fittings, conduit, ect. Be careful when drilling holes to avoid any damage to the internal components or wiring. All drilled holes must be sealed to prevent both liquids and gases from penetrating the enclosure and damaging the electronics. All fittings should be liquid-tight/NEMA 4X rated, and any gaps be filled with silicon-based caulk.

Step 4: Connect Scale Base Input Cable

Before connecting scale base cable, ensure scale base and indicator serial numbers match each other.

1. If indicator is configured for 1 channel, connect cable to "BASE INPUT". If indicator is configured for 2 channels, connect channel 1 cable (**blue heat shrink tubing**) to "BASE INPUT" on top control board, and connect channel 2 cable (**yellow heat shrink tubing**) to "BASE INPUT" on bottom control board.
2. Then connect each scale base cable wire to its labeled terminal:
 - Red Wire: "R" (Excitation +)
 - Green Wire: "G" (Signal +)
 - White Wire: "W" (Signal -)
 - Black Wire: "B" (Excitation -)
 - Violet Wire: "SHD" (Shield)

Step 5: Connect mA Output Wiring (Factory Option)

mA output wiring diagrams are shown in the AccuPro 1000 Operator's Manual

1. If indicator is configured for 1 channel, connect wiring to "mA OUT". If indicator is configured for 2 channels, connect channel 1 wiring to "mA OUT" on top control board, and connect channel 2 wiring to "mA OUT" on bottom control board.
2. Then wire according to the selected output type:
 - **SCALE (self-powered mA signal)**
 - Connect the measurement device's + input to the "+" terminal
 - Connect the measurement device's -/COM input to the "-" terminal
 - Shield (optional): "SHD"
 - **LOOP (external 12-30 VDC loop powered mA signal)**
 - Connect +VDC from the external supply to the "+" terminal (loop mA current is measured in series with +VDC)
 - Connect -VDC from the external supply to the "-" terminal
 - Shield (optional): "SHD"

Step 6: Mount the Enclosure

Secure the enclosure cover by closing the latch and installing (4) screws located at each corner. Mount the enclosure 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 NEMA 4X rated, it is not designed to withstand wash-down procedures or 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 1000 once enclosure is mounted.

***** For more information view the AccuPro 1000 Operator's Manual *****