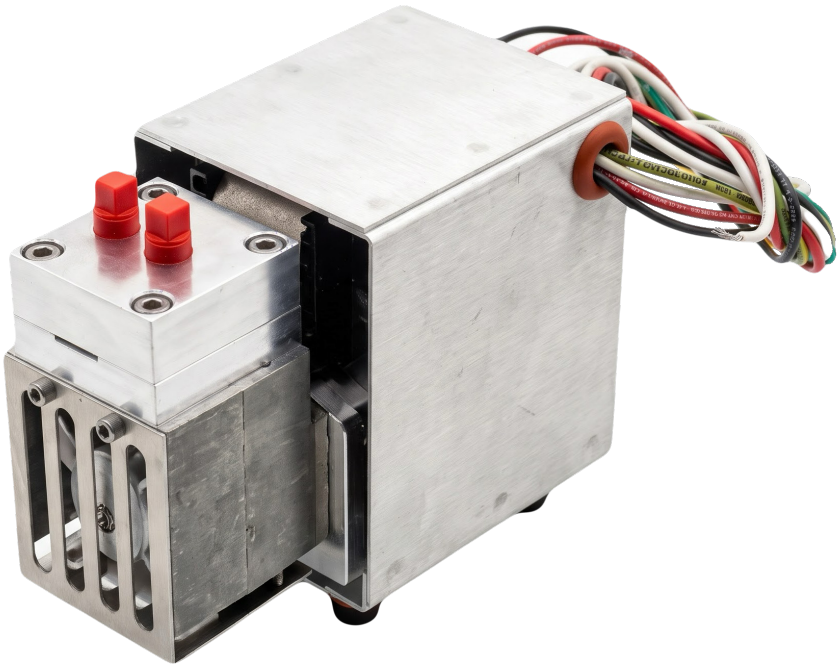
SOUTHLAND SENSING

PUMP-1001
Product Specification Sheet

Online Sampling Pump, 110VAC 50/60 Hz



- Optimized Flow, Pressure, and Vacuum
- Integral Sampling Pump
- Reduced Maintenance Requirements

The Southland Sensing Single Head Pump delivers exceptional performance for gas sampling and analytical applications. Featuring advanced diaphragm pump technology and customizable eccentric design, the pump provides reliable vacuum and pressure generation while maximizing diaphragm and bearing life.

For most gas analysis applications, Southland Sensing recommends installing the pump upstream of the analyzer. In this configuration, the pump pushes the sample gas through the analyzer, helping maintain positive sample flow, minimize response time, and improve measurement stability.

Whether operating as a vacuum pump, compressor, or both, the pump offers the flexibility, durability, and performance required for demanding industrial and laboratory environments.

Specifications

Dimensions:	5.5″ H x 3″ W x 5″ D
Material:	304 Stainless Steel
Weight:	3.8 lbs
PSIG (MAX Pressure):	29.2 PSIG
Power:	110 VAC

Optional Gas Connections:

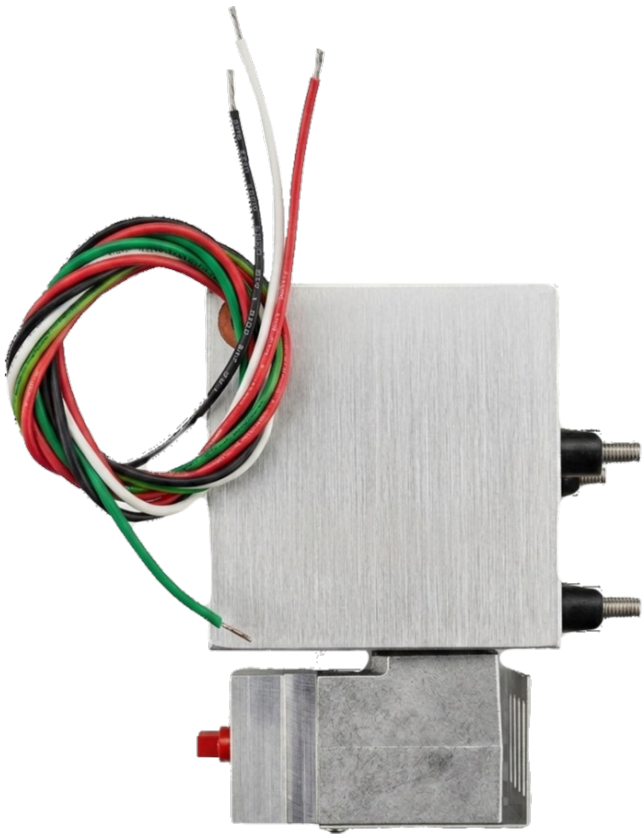
- 1/4″ Compression Tube Fittings
- 1/8″ Compression Tube Fittings
- 6mm Compression Tube Fittings
- 1/8″ FNPT

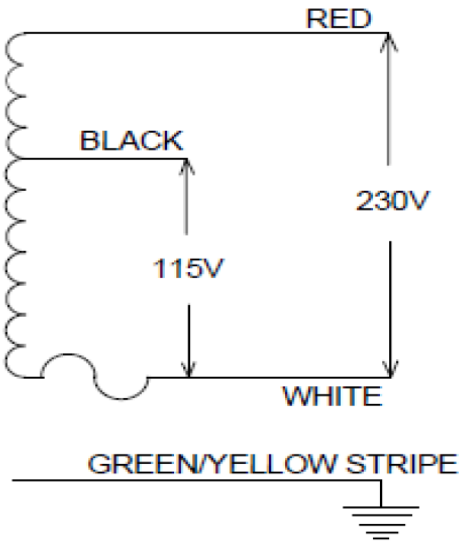
SOUTHLAND SENSING

PUMP-1001 Wiring Diagram

Product Specification Sheet

Pump-1001 Wiring Diagram





The Wire Colors

WHITE (-): This is your "Common" or neutral wire.

BLACK (+): This is the wire you use for 115 Volts 50/60Hz (standard US wall outlet power).

RED (+): This is the wire you use for 230 Volts 50/60Hz (heavy-duty appliance power).

GREEN (GND): This is your Ground wire. It is there purely for safety to prevent electric shock and must always be connected.

How to Wire the Pump

You will only use two of the three main power wires (Red, Black, White) depending on your power source. The unused wire must be safely capped off so it doesn't touch anything, as it will have live voltage running through it when the pump is on.

Option 1: If you are using standard 115V 50/60Hz power
Connect your power source to the WHITE(-) and BLACK(+) wires.
Safely cap off the unused RED wire.
Connect the GREEN (GND) wire to your ground.

Option 2: If you are using 230V 50/60Hz power
Connect your power source to the WHITE (-) and RED (+) wires.
Safely cap off the unused BLACK wire.
Connect the GREEN (GND) wire to your ground.

⚠ **Important Safety Note:**
Always ensure the power to your circuit is completely turned off at the breaker before you begin wiring. If you are ever unsure about the voltage of your power source or how to make these connections safely, it is highly recommended to consult a qualified electrician.

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PUMP-1001 Wiring Diagram

Product Specification Sheet

Pump-1001 Drawings

