



SOUTHWELL SAMPLERS

4000 Series Upgrades

The 4000 Series Southwell Samplers have been redesigned and upgraded from previous models. All parts and upgrades are backwards-compatible, designed to retro-fit older sampling units. These are a few of the most important upgrades.



Multi-function Controller

Part #: 30-DC-MFCB or 30-AC-MFCB

Last upgraded 2002.

The 4000 series multi-function controller features easy-to-use instructions, 16 key touchpad, and 2x16 character backlit LCD. Controller has a real-time clock and is able to control sample initiation based on a number of different criteria (e.g. interval time, pulse count, 4-20mA, external contact), and is programmable with a variety of different sample sequences (e.g. composite, consecutive, timed step). It also features an internal lithium battery to maintain program settings and information in the case of power failure.

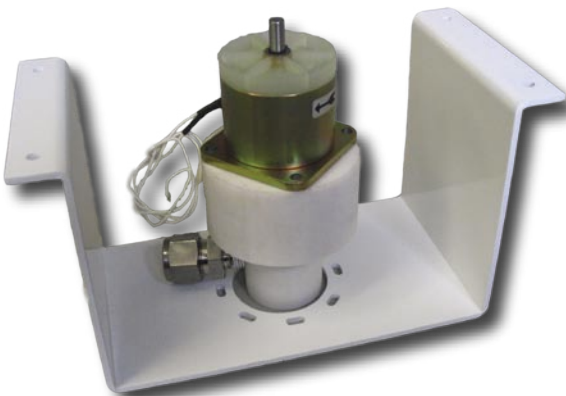


Power Pack Upgrade Kit

Part #: 15-06-78

Last upgraded 2005.

The 4000 series battery has gone through rigorous testing and improvements, particularly in regards to the cooling system. Whereas the previous system of cooling was convection, now the system includes both convection and forced air (fan), of particular importance in some sampling situations with high levels of waste heat. Also the body has been upgraded from plastic to metal, increasing reliability.



Stepper Assembly

Part #: 32-05-01 (stepper motor); 32-04-01 (teflon distributor)

Last upgraded 2005.

The stepper assembly unit is the arm which distributes samples used in discrete sampling. Recent changes and upgrades have helped prevent leaks, decrease on wear, and increase the life and performance of the unit. (Picture shown also includes stepper bracket.)

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Pinch Valve Assembly

Part #: 50-02-13 (normally open)
Last upgraded 1998.

Southwell Pinch valves are integral to controlling the sampling flow. They are reliable and long-lasting, and have had few upgrades. Most recently, the solenoid plunger has been given an extra coating, to increase durability.



Teflon Metering Chamber Cover

Part #: 50-21-06
Last upgraded 2003.

In toxic or MISA-type sampling environments where a teflon cover is needed rather than the standard nylon, warping can occur, which will lead to leaks. This new cover for the metering chamber has a powder-coated aluminum reinforcing ring and stainless steel fittings, preventing warping and providing an even pressure; the long-lasting, practical solution for rugged use.



Metering Chamber

Acrylic: Standard

Glass (pyrex): for MISA-type applications and reduced contamination of the sample

Part #: 24-01-01 Acrylic, 3/8", taper style, 500cc

Part #: 24-01-02 Acrylic, 5/8", tube style, 500cc

Part #: 24-01-03 Acrylic, all systems, tube style, 1000cc

Part #: 24-01-08 Pyrex, 3/8", 500cc

Part #: 24-01-09 Pyrex, 3/8", 1000cc

Part #: 24-01-10 Pyrex, 5/8", 500cc

Part #: 24-01-11 Pyrex, 5/8", 1000cc



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