



# cable pressure AirMAIL

**System Studies Incorporated**

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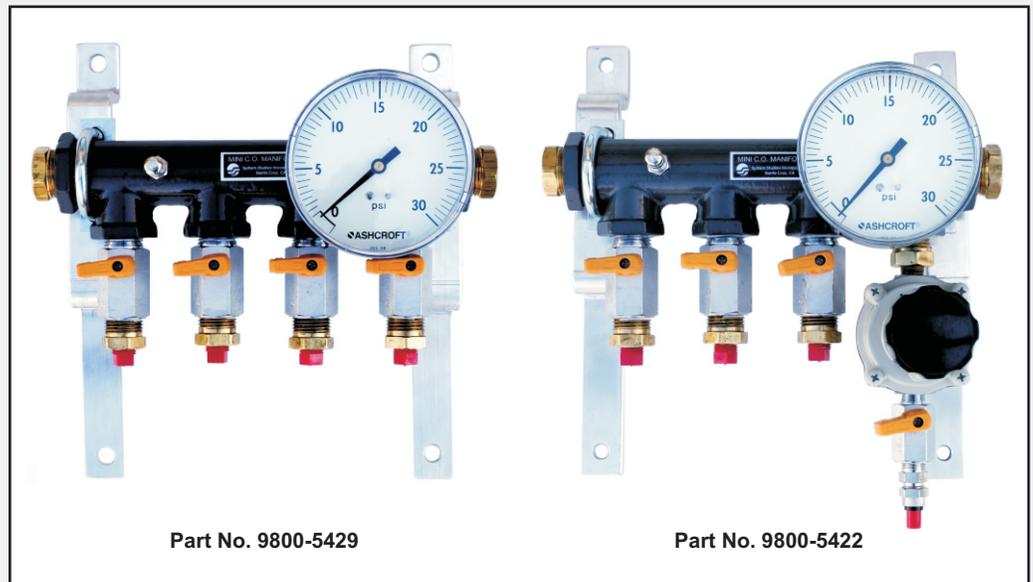
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## What's in This Issue

This AirMail bulletin introduces our two new Mini Central Office Manifolds (see below). It describes how versatile they are in connecting and routing air delivery feed from the office air dryer, the dryer backup equipment, and outgoing air feed to your central office pipe and distribution panels. They represent a major upgrade for offices without CO manifolds or pieced-together air delivery methods.

We also identify two of the important and indispensable air pressure tools you'll need for office air dryer maintenance. These tools can help you identify air delivery and humidity problems that adversely affect dryer performance and ultimately lead to equipment failure.

## Mini Central Office Manifolds



System Studies now manufactures and supplies two new small-office manifolds that provide a variety of options for routing air delivery from your central office dryers to the panels in the office. As shown, each of the manifolds has a large-face 0-30 psi pressure gauge, a tank valve to confirm the gauge output (if desired), four downward ports and two larger side ports. The downward ports each contain a shutoff valve and a 1/2" NPT-M to 1/4" NPT-F connector. Model 5422 varies slightly in that it has a pressure regulator on the fourth port, plus a shutoff valve and a 1/4" NPT-M to 3/8" tubing connector. This port is intended to supply and regulate air delivery to an old-style, non-regulated distribution or B meter panel.

The two side ports on the manifold are 3/4" NPT-F and are supplied with a brass plug. In offices that require more than the initial six ports for dryer hookups and panel delivery, two manifolds can be combined using a standard 3/4" NPT-M to 3/4" NPT-M nipple connector. In this application, it is recommended that you remove one of the gauges and replace it with a 1/4" NPT-M hex head plug.

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## Mini Central Office Manifolds (continued)

What makes these manifolds such a practical upgrade for offices without balancing manifolds is the fact that they are constructed of the highest quality materials and components — plus they offer almost unlimited options to connect whatever type of air pipe or tubing you use in your system. They can be used with flexible 1" Nyla Braid tubing to connect your air dryers and backup air sources, including the System Studies Emergency Air Delivery Access (EADA) cabinet. They can also be used with standard CA3131 air

pipe and, of course, 3/8" tubing. If your office is being monitored by a 289H LSS or a uM260 Micro Monitor, it's even possible to connect tubing from the manifold to a 0-30 psi pressure transducer to monitor delivery pressure remotely.

To find out more about the Mini CO Manifold, refer to the product data sheet on our website. Also, don't hesitate to call the System Studies Field Engineer in your area and discuss your particular needs.

## Air Dryer Maintenance

Shown below are two of the essential tools needed for air dryer maintenance, the Digital C Gauge and the Temperature/Humidity Meter. The Digital C Gauge is used in dryer maintenance to check proper drying tower pressure and purge pressure, to verify and set the line pressure, to test and set pressure alarms, and to determine the overall proper operation of the dryer.

The Humidity/Temperature Meter is used to verify the overall drying operation, the dryer humidity level, the operating temperature, the ambient room temperature, and the proper operation of humidity alarm levels. It's also used to determine the successful repair of a drying system.

Without these tools, and knowing how they are used for dryer maintenance, the technician becomes a part changer — often making repeated visits to an office and replacing expensive air dryer components in hopes of correcting a problem. The two tools below can turn a part changer into a confident, troubleshooting air dryer mechanic. They help to reduce truck rolls, the cost of unneeded parts and, of course, the potential of having wet air introduced into the air pressure system.

To find out more about how you can best keep your air dryers in good operating condition, please contact the System Studies Field Engineer in your area.



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