

Central Office Instrument Panel

Providing unparalleled ease in flow and pressure measurement

When System Studies set out to design a better central office equipment rack, we concentrated our efforts on building a superior delivery system. One that would benefit from the logical arrangement of components and the simplicity of a well-conceived air distribution system. Our design concept also required that the rack be equipped with the best tools available for measuring delivery pressure and flow rates.

New technology

From these efforts came the Central Office Air Distribution and Monitoring Assembly™. The assembly takes advantage of the latest flow measurement technology developed by System Studies Incorporated, and represents a giant step forward in the development of central office air pressure equipment.

In contrast to conventional office pipe alarm and meter panels, which are supplied with built-in flow raters for visually determining air consumption, the System Studies assembly is equipped with a separate and unique Instrument Panel (Part No. 3081). The panel includes everything you need for complete system measurements—two pressure gauges, a Flow Gauge™, a Flow Sampler™, and a times-two switch for “off-scale” (pegged) flow readings.

Flow readings

To simplify the manual reading of flow rates, the Flow Sampler extends from the front of the instrument panel and can be easily attached to any of the assembly’s Flow Finders™. The reading taken with the Flow Sampler is visually displayed on the panel’s built-in Flow Gauge.

This gauge, located on the right side of the panel, is color-coded to correspond to the flow ranges of the assembly’s preinstalled Flow Finders.

Pressure readings

When using the Flow Sampler to take manual flow measurements, simultaneous pressure readings, from 0–15 Pounds per Square Inch (PSI), are provided on the panel’s center pressure gauge. The pressure reading is obtained from the Flow Finder’s high pressure-side valve. This pressure gauge, together with the Flow Gauge, provide the capability of reading delivery pressures and flow rates simultaneously at the various panels. They also enable you to manually verify the accuracy of the High Resolution Pressure and Dual Transducers™.

The third gauge on the control panel (located on the left side) is a 0–30 PSI gauge used to measure the incoming delivery pressure from the central office dryer to the assembly’s distribution manifold. It provides a visual indication of any changes or fluctuations in delivery pressure.

Components

Supplied as standard equipment on all assemblies, the System Studies Instrument Panel consists of the following components:

- A 0–30 PSI pressure gauge indicating input pressure from the air dryer. This gauge reads in 1 PSI increments.
- A 0–15 PSI pressure gauge used to measure delivery pressure at each of the panels. This gauge indicates a pressure reading when the Flow Sampler is connected to one of the panel’s Flow Finders. This gauge reads in 0.5 PSI increments.



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Central Office Instrument Panel – Part No. 9800-3081

Central Office Instrument Panel (continued)

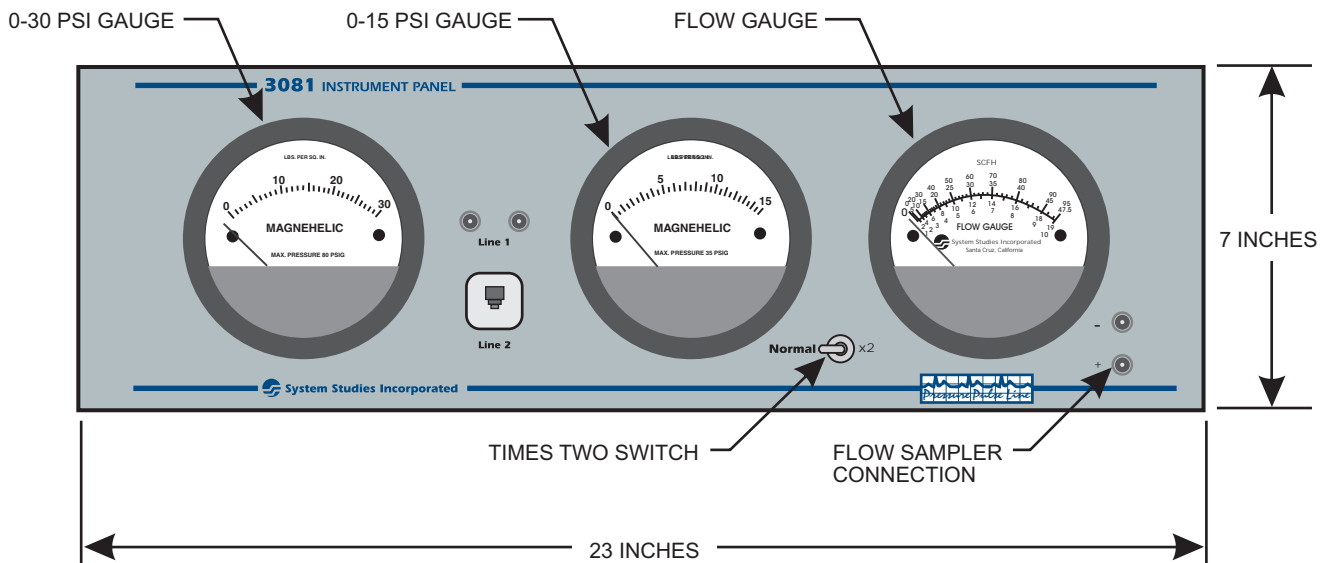
- A multi-range Flow Gauge. The Flow Gauge is color-coded to correspond to the flow range of the Flow Finder being read. There are four scales: 0–9.5, 0–19, 0–47.5, and 0–95 Standard Cubic Feet per Hour (SCFH).
- A built-in Flow Sampler with 8 feet of twin-hose tubing
- Times-two switch to extend manual flow measurements of all Flow Finders.

All reading discrepancies in the pressurization system are eliminated with the System Studies Instrument Panel in place. And technicians and dispatchers can manually verify any system reading. This panel—like all of the panels in the Central Office Air Distribution and Monitoring Assembly—demonstrates the unparalleled accuracy, simplicity of design, and unwavering reliability

obtained with this rack assembly in place in your central office. Each panel in the Central Office Air Distribution and Monitoring Assembly measures 7 inches high, by 23 inches wide and 5 inches in depth. The maximum shipping weight per panel is 10 pounds. To place an order, or to obtain further information, contact the System Studies Sales Department. Please specify the product number when ordering.

For information on System Studies' pressure and dual transducers, refer to the High Resolution Pressure Transducer and the High Resolution Dual Transducer Data Sheets. See the Flow Finder/Flow Gauge Data Sheet for detailed Flow Finder information.

Central Office Air Distribution and Monitoring Assembly, High Resolution Dual Transducer, High Resolution Pressure Transducer, Flow Finder, Flow Gauge, and Flow Sampler are trademarks of System Studies Incorporated.



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