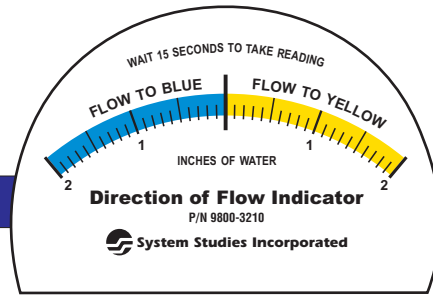


# System Studies Incorporated

## Direction of Flow Indicator



### Keeping You in the Hunt

If tracking air flow were like tracking scent, the Part No. 9800-3210 Direction of Flow Indicator from System Studies Incorporated would be the bloodhound of air pressure tools. It's got a nose for air flow direction. And it can lead you to a difficult-to-locate leaking cable.

Where this tool definitely proves its worth is in congested manholes with several interlaced (pneumatically connected) cables. It provides the important function of sampling the subtle pressure differential between two cables and translating this information into air flow direction. Through process of elimination you can eventually identify the one cable among several interlaced cables that has the lowest overall pressure—the one that is taking air from the other cables. Find and fix the leak in this cable, and pressure will rise in all of the interlaced cables.

### How it Works

System Studies' Direction of Flow Indicator offers excellent directional sensitivity and reading recognition when tracking the movement of air between cables. Its gauge face has a prominent black vertical line that is used to center the tool's reference needle. On opposite sides of this reference point are distinctly colored bands—one blue and one yellow). Two generous lengths of plastic tubing, each with a tank valve connector on the end, are threaded onto tank valves on the cables being tested. One of the air connectors has an identifying blue plastic collar; the other has a yellow collar.

Once the threaded connectors are attached to each cable being tested, the gauge needle will move either to the left or to the right. If the needle moves into the blue area on the gauge face, this indicates that air is flowing from the cable where the yellow connector is attached to the cable with the blue connector. If the needle moves to the yellow area on the gauge face, the opposite is true.

Unlike the old-style, manufacturer-discontinued Flow Direction Indicator (Part No. 9800-3200) with the rectangular, clear plastic block and Styrofoam float, the Part No. 9800-3210 Direction of Flow Indicator does not cause confusion about which air chuck and tube are attached to which cable. You can quickly distinguish your connections by looking for the brightly-colored collar on the tank valve connector end. Once you identify the color of one of the connectors, you'll instantly know the color associated with the other cable being tested—no need to manually trace your tubing connections.

### Specifications

<b>Part Number:</b>	9800-3210 (replacement for discontinued 9800-3200 block-style)
<b>Gauge Material:</b>	Metal housing, plastic cover
<b>Case:</b>	Hard rubber (with horizontal base)
<b>Tubing Material:</b>	Two (2) 1/8 in (0.3175 cm) ID plastic tubes with 1/16 in (0.159 cm) wall thickness
<b>Tubing Length:</b>	5 Feet (152.4 cm)
<b>Dimensions:</b>	5 in (12.7 cm) diameter x 4 in (10.16 cm) deep
<b>Net Weight:</b>	2.5 lbs (1.13 kg)
<b>Power:</b>	No batteries required
<b>Reading Position:</b>	For maximum accuracy, the Direction of Flow Indicator should be used in either a vertical or horizontal position. The rubber case is designed to facilitate the proper reading position. Allow 10 to 15 seconds for the pressure differential between tested cables to stabilize.
<b>Maximum Deflection:</b>	0-2 in (5.08 cm) water, .072 psi

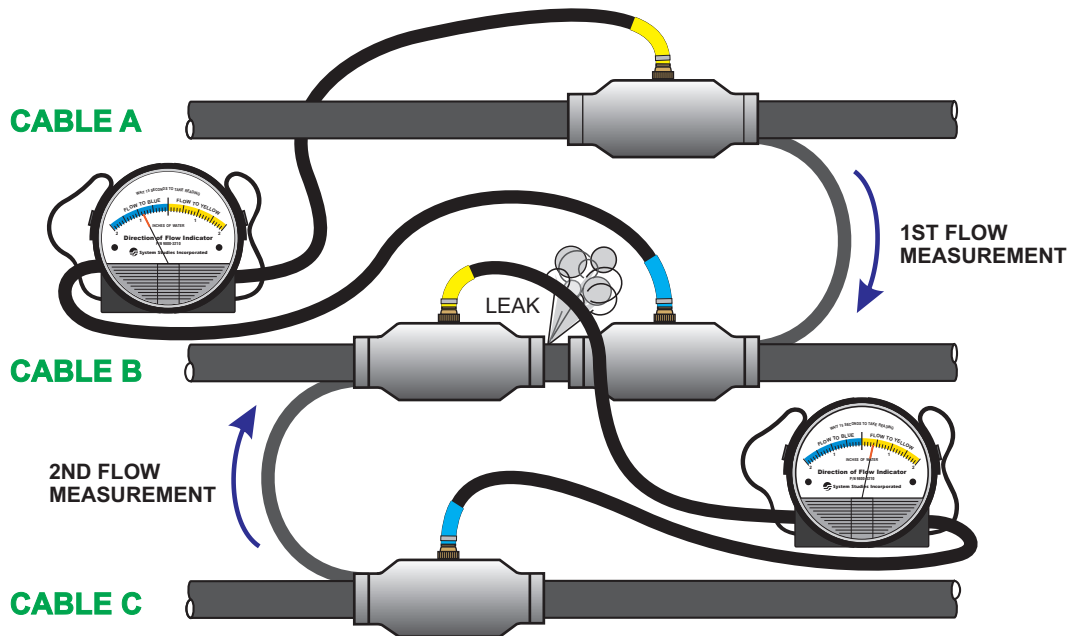
### System Studies Incorporated



2-1340 East Cliff Drive  
Santa Cruz, CA 95062  
(831) 475-5777  
(800) 247-8255  
(831) 475-9207 FAX  
www.airtalk.com



## Direction of Flow Indicator



This example represents interlacing in a manhole. A leak in one of these cables will pull down pressures in all three cables. Taking pressure readings with a C pressure gauge may not reveal much difference among the three cables. The tool just doesn't provide the level of precision needed, plus it's not easy to read—especially when pressure readings are very close (within one or two hundredths (.01 or .02) of a pound per square inch (psi).

The 9800-3210 Direction of Flow Indicator is calibrated to measure very subtle pressure differences—equal to or greater than the discontinued block-style original. Its large gauge face also makes it easy to identify which direction the air is flowing.

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