



A I R S E R C O

VACUUM GAUGES ANALOG

FEATURES COMMON TO ALL AIRSERCO ANALOG VACUUM GAUGES

- **High accuracy: 2% of full scale**
- **Reliable thermopile sensor**
- **Fast response time, < 1 second**
- **Easy to read 4" analog scale**
- **Ideal for refrigeration and leak testing**
- **Rust-proof anodized cabinet**
- **115 or 230/VAC available**
- **Unaffected by changes in ambient temperature**

ANALOG HIGH VACUUM GAUGES

8990-SM Series and 9044-SM Series



Model 8990-SM Vacuum Gauge

With a unique extended range scale the analog display begins indicating pressures at 20,000 microns, the boiling point of water at 70°F. The graduated scale provides higher resolution at lower pressures to allow accurate readings at pressures below 500 microns. The instrument is housed in a heavy duty rust-proof anodized cabinet and has an illuminated ON/OFF switch. The 8990-SM includes an 8' grounded power cord and an 8' cable for the gauge tube sensor. Also included is the thermopile type sensor (8970-SM) with 1/8" male pipe thread connection. The gauge is also available with six position selector switch and connectors for six gauge tube cables, Model 8991-SM. *Accuracy: 2% of full scale angular meter deflection. Pressure Range: 0-20,000 microns-analog display. Case Dim.: 7.7" X 7.0" X 5.1". Weight: 3 lb. net, 4 lb. shipping weight with sensor. Panel Mount: Available on request.*



Model 9044-SM Vacuum Gauge

The cabinet mounted instrument features heavy duty anodized cabinet with unbreakable nylon handle and illuminated ON/OFF switch. This vacuum gauge compliments the vacuum controller on the production line because it uses the same (9020-SM) gauge tube sensor with 1/8" MPT connection. The gauge comes complete with sensor, 8' gauge tube cable, and grounded power cord. The 4" analog scale reads from 0 - 1,000 microns with precision accuracy. The gauge is also available with six position selector switch and connectors for six gauge tube cables, Model 9045-SM in either 115 or 230/VAC. *Accuracy: 2% of full scale angular meter deflection. Pressure Range: 0-1,000 microns-analog display. Case Dim.: 7.7" X 7.0" X 5.1". Weight: 3 lb. net, 4 lb. shipping weight with sensor. Panel Mount: Available on request.*



A I R S E R C O

VACUUM GAUGES ANALOG



VACUUM CONTROLLERS

9055-2P, 8999-2P

The compact measurement and control instrument is designed for panel mount application. It features two adjustable set points that control 3 amp relays with both normally open and normally closed contacts. Set points are adjusted through front panel mounted knobs. The high resolution analog display reads from 0 to 1,000 microns. An identical model with an extended range scale reading 0-20,000 microns is also available (Model 8999-2P). The controllers use a thermopile type sensor (not included), 9020-SM for the 9055-2P, and 8970-SM for the 8999-2P with 1/8" male pipe thread connection. Included are 8' gauge tube cable, and power line cord. Please specify 115 or 230/VAC. *Accuracy: 2% of full scale angular meter deflection. Pressure Range: 1-1,000 (9055-2P) or 0-20,000 (8999-2P) analog display. Weight: 2 lb. net, 3 lb. shipping weight. Cabinet Version: Available on request.*



8970-SM

9020-SM

GAUGE TUBES FOR AIRSERCO HIGH VACUUM GAUGES

8970-SM and 9020-SM

Airserco gauge tubes feature heavy-duty, plated construction and have 1/8" male pipe thread connections. The purple-topped 8970-SM gauge tube is used with the 8990-SM gauge, and the 9020-SM gauge tube is used with the 9044-SM gauge. Use of an improper gauge causes incorrect readings. To protect any gauge tube from contamination by solids, and to aid in condensing vapors before they contact the sensing element, use Airserco 8971 Gauge Tube Protective Trap. Screw the gauge tube into the protective trap, then screw the combined assembly into the system in the same way as you would the gauge tube alone.

WARRANTY: Handle these gauges with the care given any electrical instrument and you will enjoy years of trouble-free service. The standard Airserco warranty on electrical instruments applies only to the Vacuum Gauge. The Gauge Tube cannot be warranted because of the tube's subjection to contamination or foreign elements.



VACUUM REFERENCE TUBE

9051, 9052

- **Use to check or set calibration**
- **Available for both 1,000 and 20,000 micron instruments**
- **Precision device for high accuracy**

A vacuum reference tube can be used to calibrate Airserco vacuum gauges accurately. By connecting the reference tube to the instruments gauge tube cord, a fixed reading is indicated on the instruments dial face. If the reading is not consistent with the correct reading as marked on the reference tube, the instrument should be adjusted to the proper reading, bringing the instrument to correct calibration.

9051 is for use with instruments using 8970-SM gauge tube (0-20,000 microns). 9052 is for instruments using 9020-SM gauge tubes (0-1,000 microns).



A I R S E R C O

VACUUM GAUGES DIGITAL

FEATURES COMMON TO ALL AIRSERCO DIGITAL VACUUM GAUGES

- **High accuracy, greater than +/-5% of pressure reading or +/-5 microns**
- **Rugged all metal Pirani sensor**
- **Fast response time, 0.3 seconds**
- **Reliable all solid state circuitry**
- **Ideal for refrigeration and leak testing**
- **Vibration and shock resistant**
- **115 or 230/VAC available**
- **Unaffected by changes in ambient temperature**

DIGITAL HIGH VACUUM GAUGES

8900VG series and 9000VG series



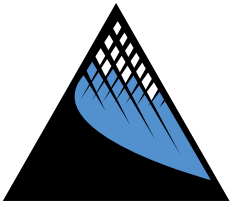
Model 8900VG Vacuum Gauge

With a unique dual reading scale the LED graphic display begins indicating pressures at 20,000 microns, the boiling point of water at 70°F. From 2,000 microns to 3 microns, an oversized LED digital display indicates exact pressure reading with precision accuracy. Instrument is housed in a heavy duty rustproof anodized cabinet and has an illuminated ON/OFF switch. The 8900VG includes an 8' grounded power cord and an 8' cable for the gauge tube sensor. Also included is the all metal Pirani technology sensor (8901-T) with 1/8" male pipe thread connection. The Pirani gauge tube sensor responds faster than thermocouple and thermopile type sensors because it operates at lower internal temperatures, it provides longer life. Also available with five position selector switch and connectors for five gauge tube cables, Model 8900VG-5. *Accuracy: Better than 5 microns, or 5% of reading. Pressure Range: 3-2000 microns-digital display, 3,000 to 20,000 microns-bar graph display. Case Dim.: 7.7" X 7.0" X 5.1". Weight: 3 lb. net, 4 lb. shipping weight with sensor. Panel Mount: Available on request.*



Model 9000VG Vacuum Gauge

The cabinet mounted instrument features heavy duty anodized cabinet with unbreakable nylon handle and illuminated ON/OFF switch. This vacuum gauge compliments the vacuum controller on the production line because it uses the same (9001-T) gauge tube sensor with 1/8" MPT connection. The gauge comes complete with sensor, 8' gauge tube cable, and grounded power cord. The bright, LCD display is identical to the Vacuum Controller and reads from 3 to 2,000 microns with precision accuracy. The gauge is available with either 115 or 230/VAC. *Accuracy: Better than 5 microns, or 5% of reading. Pressure Range: 3-2000 microns-digital display. Case Dim.: 7.7" X 7.0" X 5.1". Weight: 3 lb. net, 4 lb. shipping weight with sensor. Panel Mount Available on request.*



A I R S E R C O

VACUUM GAUGES DIGITAL



VACUUM CONTROLLER

9000VC-2

The compact measurement and control instrument is designed for panel mount application. It features two adjustable set points that operate control relays. Push-to-set switches simplify display and adjustment of high and low pressure set points. Relays have 3 amp contacts and both set screw and form C connectors on the back of the instrument. The high resolution Liquid Crystal Display reads from 3 to 2,000 microns. The controller uses a rugged Pirani type gauge tube sensor (9001-T, not included) for fast, precision readings and long life. Included are mounting clamp, 8' gauge tube cable, and power line cord. Please specify 115 or 230/ VAC. *Accuracy: Better than 5 microns, or 5% of reading. Pressure Range: 3-2000 microns-digital display. Weight: 2 lb. net, 3 lb. shipping weight with sensor. Cabinet Version: Available on request.*



8901-T

GAUGE TUBES FOR AIRSERCO HIGH VACUUM GAUGES

8901-T and 9001-T

Airserco gauge tubes feature a 304 stainless steel body, nickel plated Kovar connector pins, and have 1/8" male pipe thread connections. The Pirani gauge tube sensor responds faster than thermopile and thermocouple type sensors, and because it operates at lower temperatures, it lasts longer. The 8901-T gauge tube is used with the No. 8900VG gauge, and the 9001-T gauge tube is used with both the 9000VC-2 vacuum controller and 9000VG gauge. Use of an improper gauge causes incorrect readings.



9001-T

To protect any gauge tube from contamination by solids, and to aid in condensing vapors before they contact the sensing element, use Airserco 8971 Gauge Tube Protective Trap. Screw the gauge tube into the protective trap, then screw the combined assembly into the system in the same way as you would the gauge tube alone.

WARRANTY: Handle these gauges with the care given any electrical instrument and you will enjoy years of trouble-free service. The standard Airserco warranty on electrical instruments applies only to the Vacuum Gauge. The Gauge Tube cannot be warranted because of the tube's subjection to contamination or foreign elements.



VACUUM GAUGE CALIBRATORS

9002 and 8902

These compact and easy to use electronic calibrators allow you to adjust both zero and full scale of the Airserco digital gauge without the use of a vacuum system and without any electronics training. Just follow the step by step procedure on the calibrator front panel to insure performance the same as a new gauge.

9002 – 2000 mTorr Pirani Gauge Calibrator