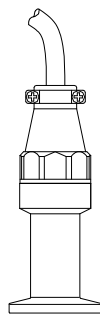
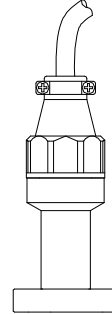


PIRANI GAUGEHEADS FOR ULTRAHIGH VACUUM MODELS PVU PVB

Aml produce a range of Pirani gaugeheads to complement their Pressure Gauge Controllers.
All models include an integral lead for convenience and economy in installation.



PVU2



PVB2

PIRANI GAUGES

Pirani gauges detect the cooling effect of residual gas molecules on a heated filament. The rate of heat transfer to the gas is related to pressure and causes a change in the electrical resistance of the filament or the amount of power required to maintain it at constant temperature. The filament is normally connected in a bridge circuit.

General Features of AML Pirani Gauges

- ◆ AML Pirani gaugeheads are intended for use in constant-voltage bridge circuits, which reduces the filament temperature and the rate of filament corrosion or contamination at high pressures.
- ◆ Range: 1 bar to 1×10^{-3} millibars.
- ◆ May be interchanged between any AML PGC series or equivalent controllers without re-calibration. Extension cables do not affect the calibration.
- ◆ Supplied calibrated for vertical installation in dry nitrogen. Internal calibration adjustments enable them to be used with other orientations and gases.
- ◆ Materials exposed to the vacuum are stainless steel, nickel-cobalt-iron, glass and tungsten.

Features of specific AML Pirani Gauges

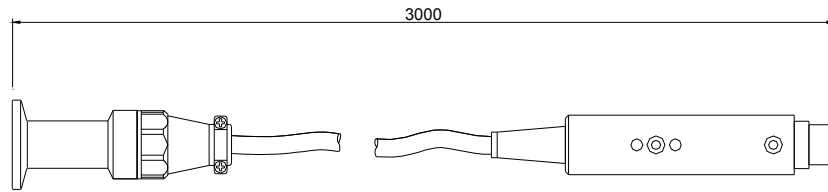
- ◆ **PVU2** is a low-cost non-bakeable gaugehead with an integral 3-metre lead and connector. The feedthroughs use matched glass-to-metal seals which have better life and leak performance than the epoxy or compression seals used on other low-cost Pirani gaugeheads. The standard flange is NW16KF.
- ◆ **PVB2** is a UHV-compatible stainless-steel Pirani gauge with an integral 3-metre lead and connector which can be baked at 250°C. The standard flange is NW16CF.
- ◆ **PVX10** is a 10 metre extension cable for use with PVU2 or PVB2. These cables extend the Kelvin sensing of AML PGCs, so that the extension does not affect the calibration.

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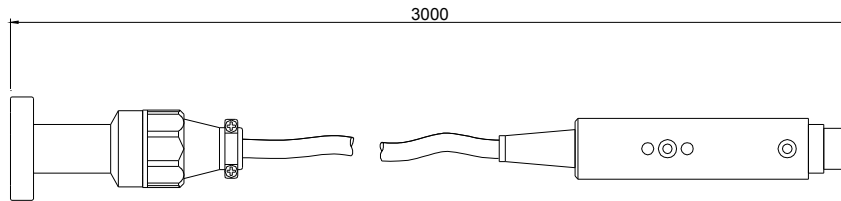
AML

innovation in vacuum technology

GAUGEHEAD DIMENSIONS / ORDERING INFORMATION



PVU2



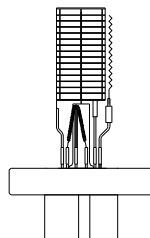
PVB2

Gauges are supplied calibrated for dry nitrogen. Calibration instructions are supplied with all gauges. AML Pirani gauges are intended for use with AML Pressure gauge controllers and 1U-high controllers manufactured by AML for other vendors. Such controllers may be identified by the AML copyright marks on the printed circuit boards.

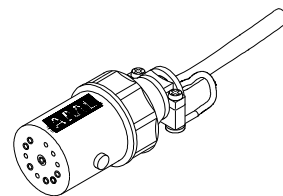
Ordering information:	PVU2	Pirani Gauge, non-bakeable , 3m lead
	PVB2	Pirani Gauge, bakeable , 3m lead
	PVX10	Pirani Extension lead, non- bakeable, 10 metres

Related Products:	AIG17P	BA gauge with Integral Pirani Gauge
	AIGL3P	Lead for AIG17P, bakeable 3m

For new installations the use of combination gauges will save cost and reduce the number of ports required.



AIG17P



AIGL3P

