

- **Portable**
 - *Can be used anywhere there is access to mains power.*
- **Easy to use**
 - *Just connect supply and set the output pressure potentiometer*
- **Provides stable output**
 - *Suitable for analyser input*
 - *Protects from overpressure.*



Description

Engine air Bleed Controller maintains a constant outlet pressure, independent of engine speed. Built into a metal instrument case with a heavy duty carry handle, it is portable and suitable for bench top mounting. Between idle and maximum engine speed, bleed air flow rate and line pressure changes dramatically, yet needs to be analysed for particulate or lubricant contamination. High flow rates or pressures can seriously damage sensitive analytical equipment, but using the EBC operators can select the outlet pressure (typically <math><100\text{ mbar}</math> above atmospheric) to suit the inlet pressure of their analyser. Sample flow rate is normally dictated by the analyser, but can be incorporated into the EBC if required.

Operation

The EBC should be connected to a suitable mains power source and left to warm up for 30 minutes before use, after which time the pressure sensor should be zeroed using the front panel display. Two hose barbs on the rear panel allow connection of the air bleed supply and an exhaust vent line from the pressure controller. A similar barb on the front panel allows the outlet to be connected to the analyser. At idle speed the outlet pressure can be read from the front panel display and adjusted using a recessed potentiometer, which reduces the risk of tampering.

Engine Bleed Air Controller	
Case	IP30 metal instrument case, with lockable handle/tilt stand.
Process connections	Steel hose barbs (3)
Display	4½ digit 10mm red LED
Electrical connector	IEC 320
Power input	230 VAC 50/60 Hz
Analogue outputs	Optional
Temperature range	0 - 70°C
Absolute pressure range	0 - 100 mbar , others available on request
Absolute pressure uncertainty	0.5% of full-scale