



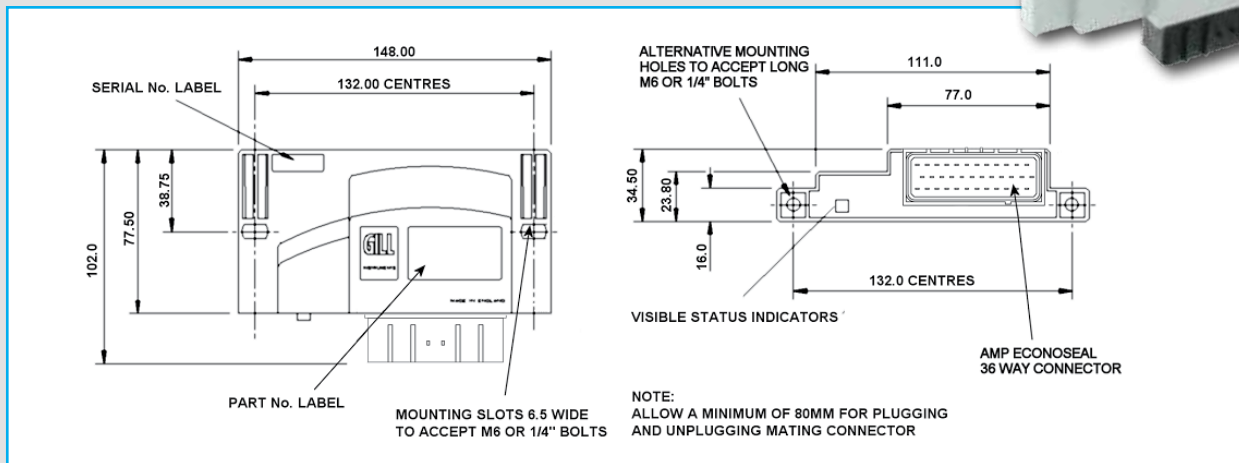
# AF120 Air/Fuel Ratio Control

The AF120 control module can be used within a variety of control systems. In the carburettor bypass configuration the Gill AF120 fuel valve can be utilised. Alternatively the module can be used to control fuel pressure regulator systems and systems requiring turbo waste gate control. The AF120 fuel valve has been specifically designed to operate with the AF120 control module for medium sized engines where a fuel bypass system can be utilised. Using a stepper motor with over two hundred steps provides absolute precision around the set point.



## Key Features

- Outputs to stepper or current controlled bypass valves
  - Fast start up due to heating of UEGO sensor
  - Programmable via easy to use Windows based GUI
  - Controls Lambda value to set-point by means of proportional, integral control loop
  - Programmable valve start position and offset
  - Programmable load map
- The 4-20 mA output can drive pneumatic control valves on engines fitted with turbo waste gate.



## Specification

AF120 Air/Fuel Ratio Control Module			
Inputs	Throttle position or MAP sensor for load mapping Wideband UEGO sensor for exhaust oxygen measurements Additional sensor inputs for more rigorous applications	Certification	CSA® Certified Class 1, Div. 2, Groups C and D when installed in the EH12 shielded enclosure
Outputs	AF120 fuel valve, or 4 - 20 mA controlled valve.	Environmental	-40 ° C to + 90 ° C, Sealed to IP67
Communications	RS232 for programming via Windows® based GUI	Supply Voltage	12 - 24VDC



## Engine Controls