Lambda and Pressure Control

HT-AF-3000

Product Features

- Precise Lambda control
- Can-Bus communication
- Graphical display
- History record (1800 events)
- Password protected
- Touch screen
- Numerous I/O's (Optional)
- Configurable In and Outputs (Optional)
- Accepts Boost Pressure 4 - 20mAmp or 0 - 5 VDC
- Input Power 7 - 30 VDC
- Operational Temperature -40°C - +70°C
- DIN Rail 35 mm
- Compatible with Lambda probe type Bosch LSU 4.2 / LSU 4.9

Advantage

- Perfect price performance ratio
- O2-Drift compensation
- Remote access to genset controllers possible
- Reduced wiring
- Programmable via touch screen and PC software

Air fuel ratio always under control

The HT-AF-3000 is a unique and enhanced Lambda Control unit combined with I/O Moduls (optional). A modern control platform with a powerful microprocessor and a large memory unleashes numerous features and flexibility.

It is used in all gas engine application such as stochiometric and lean burn. Mapping power, boost pressure, temperature and other parameters result in a very precise and fast responding air fuel ratio control.

Monitoring combined with logic functions allows the user a wide combination and therefore the HT-AF-3000 can be adapted to any application task.

CAN Bus communication to other peripheries facilitate remote access and avoids wiring issues.

A powerful graphical display. Icons symbols for intuitive operation set a new standard for the gas engine controls.

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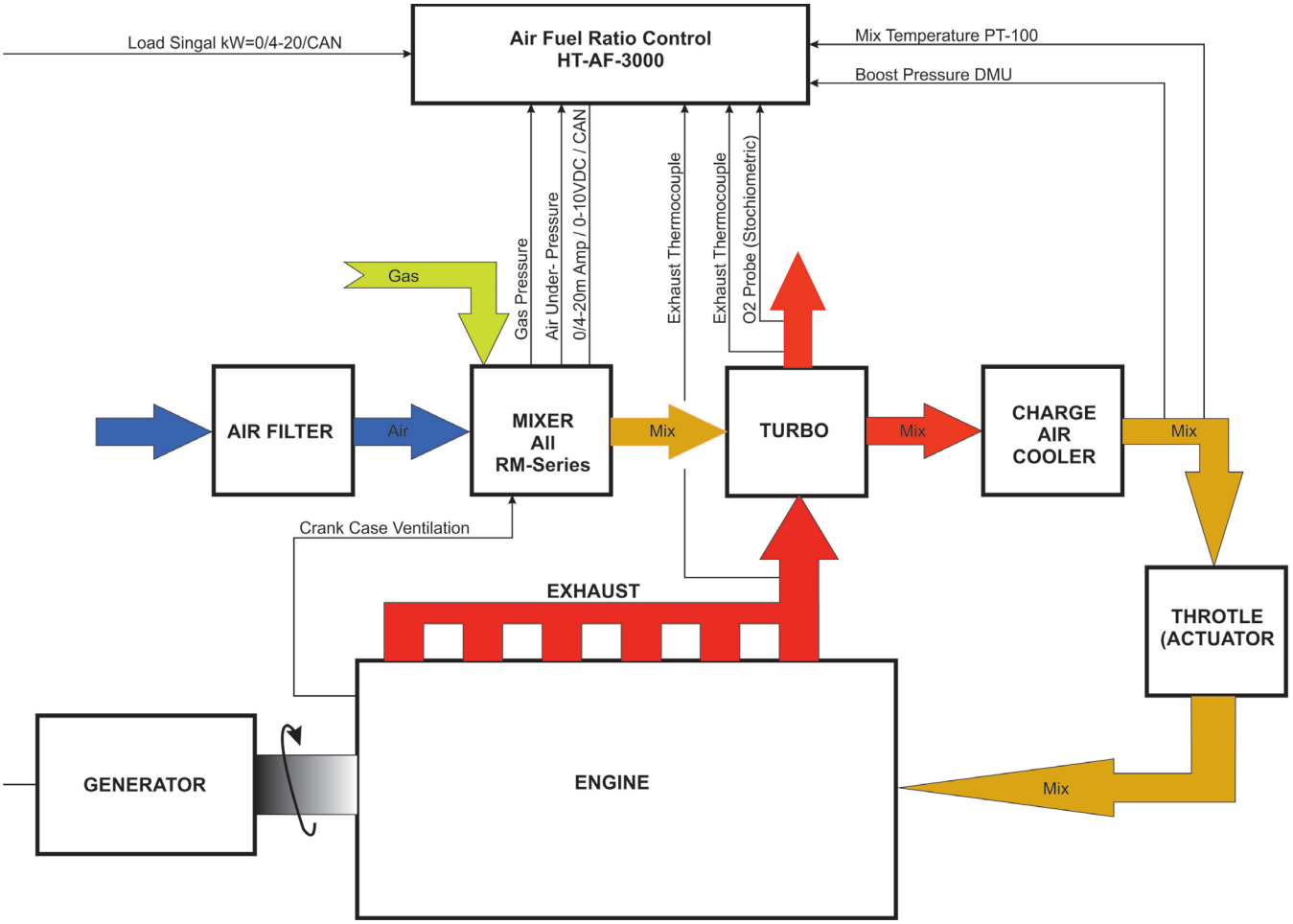
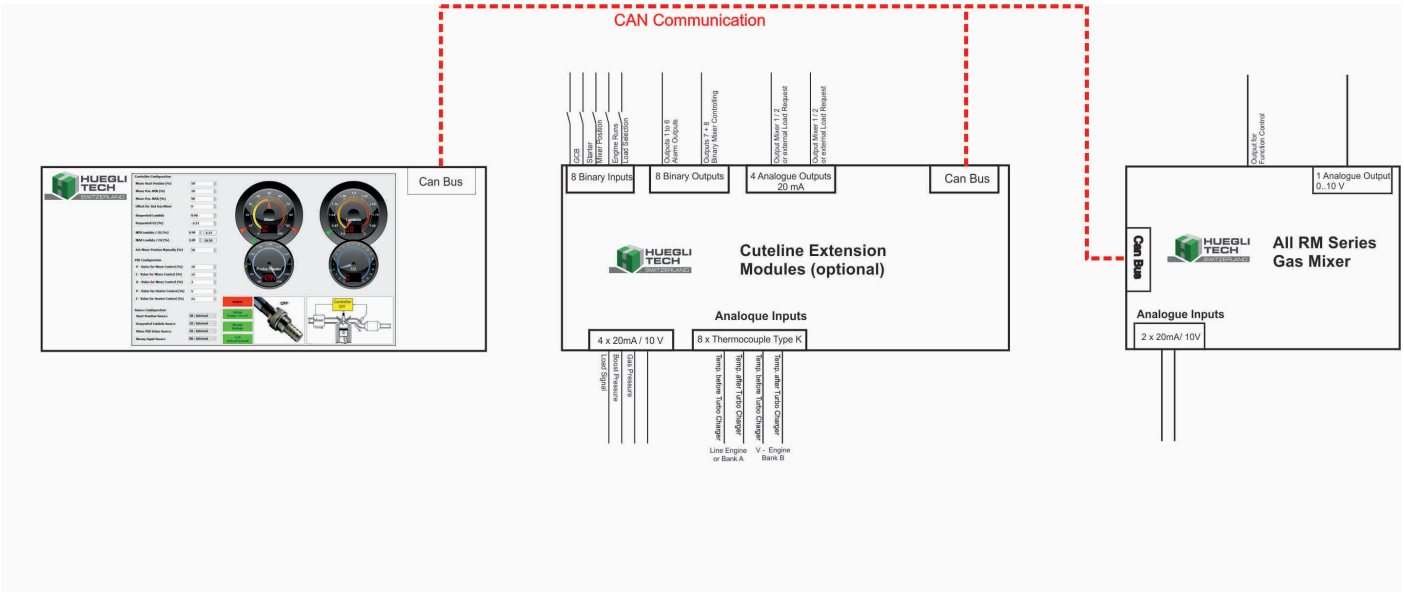
HT-AF-3000

Application Example





Lambda Control

HT-AF-3000

Technical Specifications

Input parameters

Supply Voltage	12 - 30 VDC, Reverse Polarity Protected
Current Consumption Pressure Mode	Maximum 0.5 A with 24 VDC Input @ 25°C
Current Consumption Lambda Mode, Lambda Probe On	Maximum 1.2 A with 24 VDC Input @ 25°C
Current Consumption Lambda Mode, Lambda Probe Off	Maximum 0.1 A with 24 VDC Input @ 25°C
Number of Inputs	1, Non-Isolated

Sensors

Sensor Types/Range	Boost Pressure Sensor	Input Current	4 - 20mA
		Input Voltage	0 - 5V
	Load Signal	Input Current	0 - 20mA / 4 - 20mA
	Exhaust Gas Temperatures		Thermocouple Type K, J, N
	M(anifold)A(ir)T(emperature)		PT-100 (RTD)
Lambda Probe			LSU 4.2 / LSU 4.9

Ambient

Operational Temperature	-40 to +70°C (-40 to +158°F)
Storage Temperature	-40 to +85°C (-40 to +185°F)
Relative Humidity	5 to 95%, Non-condensing

Standards / Regulation

Authorizing office	RoHS requirements
Communication	CAN Bus SAE J1939, Modbus RTU
LCD Communication	RS232

Display

Display	Graphical LC-Display, 480, Background illuminated

Reliability

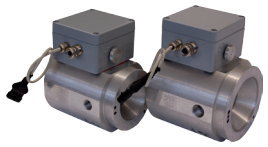
Calibration	Factory Calibrated

Dimension and weight

Dimensions	139 x 107 x 32 mm
Weight	0.372 kg

Configuration parameters

Wire Size	0.5 to 4mm² (22 to 12 AWG)
Mounting	DIN Rail 35 mm



Making the most use out of the HT-AF-3000 is to combine it together with the RM series Mixer. This enables more features and is also cost saving for any application. Additional I/O's on the Mixer PCB prevent from using costly extensions.

Local Distributor / Partner:

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