HT-CL-AF1000LS

Common features:

- Stand-alone device or for connection to HUEGLI TECH Controllers
- Compatible with Lambda probe type Bosch LSU 4.2 / LSU 4.9
- Special SW algorithms protect sensor heaters from thermoshock during coldstarts.
- Configuration via USB and PC software
- Communication via CAN bus (supports various protocols)
- Communication via Modbus RTU RS485
- Input Power 7-30 VDC
- -40°C +85°C
- DIN Rail 35mm



CuteLine Lambda and Mixer Module

Simple control of gas volume: the output of the Lambda probe is processed through a PID loop and the result fed to the gas-mixer to vary the amount of gas supplied.

Efficient gas volume regulation has a name: HUEGLI TECH CuteLine HT-CL-AF1000LS.

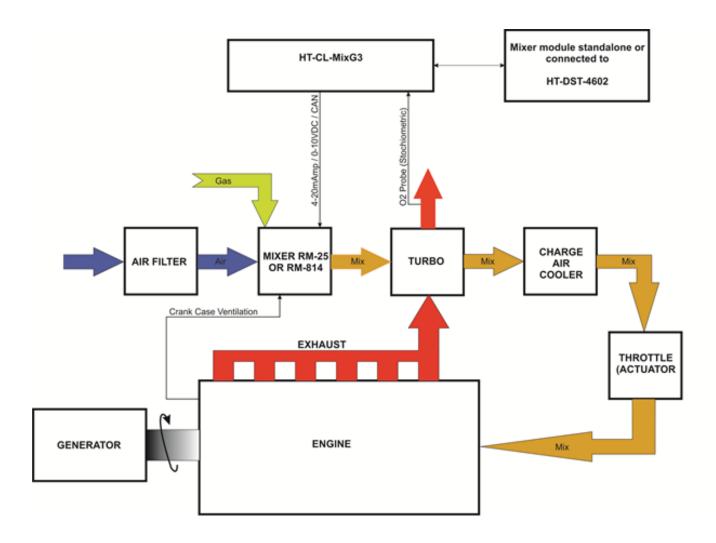
The direct CAN Bus Communication with the Gas Mixer and/or the Gen-Set Controller works simply and effectively, with the minimum of cabling.



System Overview

A **Lambda probe** (λ -probe) is a sensor that measures the remaining oxygen in the exhaust gas. From this the air/fuel ratio is determined. By means of a suitable mixer (Huegli Tech RM-814, RM-25 or RMV-98) the ring-gap position is set so that the nitrogen oxide content is minimised. An air/fuel mixture with total combustion of all the oxygen from the air is referred to as Lambda = 1 (λ).

The Lambda probe is the key element in the lambda control loop for catalytic exhaust gas filtration (commonly: regulated catalyst). The solid-state electrochemical voltage (Nernst cell) measurement principle is used. The units recommended are the Bosch, LSU 4.2 und LSU 4.9.



The lambda controller AF-1000LS includes an integrated power supply for the heating circuit of the lambda probe. This is required to bring the sensor rapidly to the required working temperature.



Extension Module

HT-CL-AF1000LS

Technical Data

Input Power	7-30VDC, with reverse polarity protection
Output Power	Lambda Probe IN : Maximum 0.75A, with 24VDC input voltage @ 25°C
	Lambda Probe OUT: Maximum 0.08A with 24VDC input voltage @ 25°C
No. of Inputs	
No. of Outputs	2 for Mixer Control, non isolated
Sensors / range	2, binary, non isolated2 for Mixer Control, non isolated2 Lambda probe Bosch LSU 4.2 / LSU 4.9
Supported communicationsprotocols	
	ModBus RTU (for module configuration)
Operating Temp. range	-40 to +70 °C (-40 to +158°F)
Storage Temp. range	-40 to +85 °C (-40 to +185°F)
Relative Humidity	5 to 95%, non condensing
Dimensions (incl. connectors)	30 x 110 x 94 mm
Mass (incl. connectors)	205g
Wiring diameter	AWG 22 to 12
Mounting	

Other Modules:

HT-CL-AF1000LS: 02 Probe (LSU 4.2) Lambda Controller

HT-CL-AF1500P: Pressure-regulated Lambda controller

HT-CL-MIXRMV: Dual Driver Module for Mixer RMV-40-ZXX



Local Distributor / Partner:

