

# GMCU-II-52/68

## DATA SHEET

### Description

The gas metering control units of GMCU-series serve as main component of a full authority gas engine management system. A flow setpoint is specified via CAN bus or alternatively via one of the other available I/O interfaces and converted into the precise setting of the gas flow.

Based on the measurement values of differential pressure, gas pressure and temperature the gas throttle valve, directly mounted on a StG 3 actuator, is controlled by the integrated control board to achieve the desired gas flow rate.

Precise factory calibration of the gas metering units combined with the high-accuracy valve actuators enables the units to provide outstanding flow control.

Any measuring channels for gas pressures are integral part of the cast housing, eliminating the need for hoses or tubes entirely. This makes the design extremely robust and, as a result, highly resistant to shock and vibration.

GMCU-II-52/68 is able to handle a differential pressure range of 40 ... 250 mbar.



### Features

Accurate air-fuel ratio control

Compensation of gas quality fluctuations

Designed for integration into existing AFR control systems

Ideal for retrofitting and large engine OEM applications

Suitable for different gas types and qualities

No zero pressure regulator required

Tolerant to wet biogases and corrosive contaminants

CAN bus communication

### Technical Data

	GMCU-II-52	GMCU-II-68
Flow diameter	Ø52 mm	Ø68 mm
Supply voltage	nom. 24 VDC, 18 ... 32 VDC	
Current consumption	max. 8 A	
Gas inlet pressure	600 ... 1600 mbar	
Pressure difference inlet / outlet	40 ... 250 mbar	
Flow accuracy	Measurement error < 5 % (at min. 15 % of maximum flow rate)	
Operating temperature	-20 ... +85 °C	
Storing temperature	-40 ... +105 °C	
Permissible ambient humidity	max. 95 % at 55 °C	
Degree of protection	IP67	
I/O interface	CAN Bus, Analog input (4 ... 20 mA or 0 ... 5 V), PWM input (300 ... 2000 Hz; 4 ... 32 V), 3× digital input (high-side or low-side), Digital output (low-side)	

### Certificates

on request

# Dimensions

