

GMCU-II-110

DATA SHEET

Description

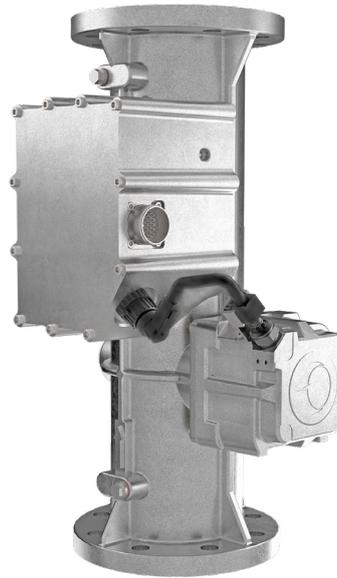
The ELEKTRA Gas Metering Control Unit GMCU-II-110 serves as main component of a full authority gas engine management system. A flow setpoint is specified via CAN bus or alternatively via one of the other available I/O interfaces and converted into the precise setting of the gas flow.

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 calibration of the gas metering unit combined with a high-accuracy valve actuator enables the unit to provide outstanding flow control.

Any measuring channels for gas pressures are integral part of the cast housing. The design is extremely robust and the absence of any tubes results in high shock and vibration resistance.

GMCU-II-110 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

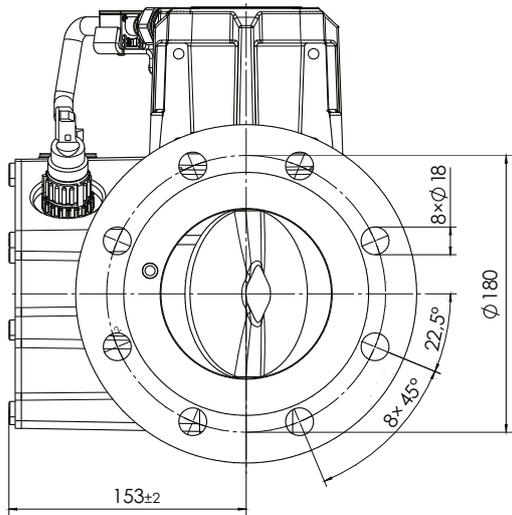
General specification

| | |
|------------------------------------|---|
| Supply voltage | nom. 24 VDC 18 ... 32 VCD |
| Current consumption | max. 6 A |
| Gas inlet pressure | 60 ... 1600 mbar (abs.) |
| 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 | <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



Flange according to
DIN 1092-1 DN100 / PN16

