



GMC Ecoline system

Compact gas detection system
for private and public buildings



Developed according to the requirements of
the DVGW (German technical and scientific
association for gas and water)

Bieler+Lang 
Gas Detection Systems

Safety for private and public buildings

Our new gas detection system is designed according to the new European Norm for the prevention of gas leakages in public buildings like schools, hospitals, kindergartens and nursing homes as well as smaller business buildings.

The device is used for the reliable detection of natural gas (methane) as well as liquefied gas (LPG, butane). Up to four hazard zones can be monitored with one controller. The controller uses relay-outputs to switch technical safety measures and a solenoid valve in the gas pipe in case of an alert. An integrated buzzer is used for acoustic alerting.

According to EN 50194 our system is certified for functional safety by a notified body (TÜV Süd).

GMC Ecoline 8304



Number of connectable detectors:	max. four detectors GM Ecoline HC 50
Sensor input:	four times 4 - 20 mA
Outputs:	potential free change-over contact (230 VAC, 5 A) relay-output (32 VDC, 200 mA) - three alarm thresholds - device-error
Buzzer:	built-in buzzer 85 dbA
Power supply:	240 VAC
Emergency power supply:	one emergency power input 24 VDC
Temperature range:	-10 °C up to +40 °C 10 - 95 % relative humidity
Atmospheric pressure:	800 - 1200 hPa
Protection classification:	IP44
Housing:	plastic housing (240x190x90 mm)
Weight:	1300 g
Expected lifetime:	typically > 8 years
Performance approval:	EN 50194 Electrical apparatus for the detection of combustible gases in domestic premises TÜV Süd Automotive GmbH, Report BA68851T TÜV-Mark Z10 02 07 40496 002
Electrical safety:	EN 60335-1 household and similar electrical appliances – safety
EMC requirements:	EN 50270 (Type 1) EN 61000-6-3

GM Ecoline HC50



Measuring principle:	Pellistor gas sensor
Measurement range:	0 - 100 % LEL
Measuring gas:	methane, propane, butane
Output:	4 - 20 mA
Atmospheric humidity:	10 - 95 % relative humidity
Atmospheric pressure:	800 - 1100 hPa
Protection classification:	IP44
Housing/Weight:	plastic housing (110x56x81 mm), 170 g
Expected lifetime:	- electronics: typically > 8 years - sensor: typically > 3 years
Performance approval:	EN 50194 Electrical apparatus for the detection of combustible gases in domestic premises TÜV Süd Automotive GmbH, Report BA68851T TÜV-Mark Z10 02 07 40496 002

