Technical Data Load Controller Module LCM100

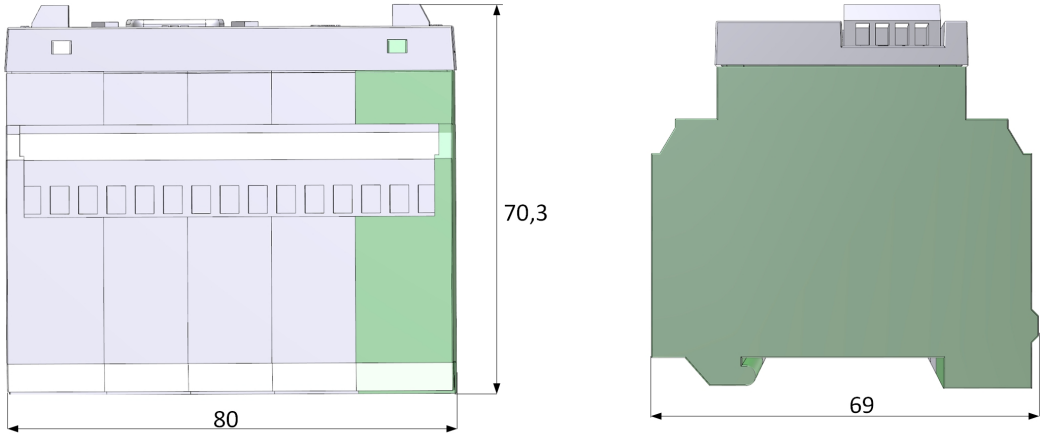

Fig. 1 Dimensions LCM100

General data	
Power supply	90 - 250 V 47–63 Hz
Power consumption	18,2 VA
Housing	Polyamide 6.6 (panel: polycarbonate)
Dimensions (H x W x D)	69 x 80 x 70,3 mm | 2.72 x 3.15 x2.77 " in
Weight	270 g | 0.60 lb
Flammability	UL-94 V0 (panel: UL-94 V2)
Mounting position	as desired
Installation	TS35 mounting rail as per EN 50022
Connection cross section	2.5 mm^2 | 13 AWG (plugged LSB terminals: 0.5mm^2/20 AWG)

24 VDC Output	
Rated voltage	24 VDC +/-5 % (SELV)
Output current	max. 400 mA
Short-circuit resistant	yes, unlimited

Input outside temperature	
Valid sensors	Pt100 or Pt1000 (switchable)
Range of measuring	Outside temperature: -50 … +150 °C | -58 ... + 302 °F Boiler temperature: 0 ... +400 °C | +32 ... + 752 °F Flue gas: 0 ... +400 °C | +32 ... + 752 °F
Resolution	0,1 °C | 32.18 °F
Accuracy of measurement:	Range -5 ... +150 °C = ± 1 °C | +23 ... +302 °F = ± 33.8 °F Range +150 ... +400 °C = ± 2 °C | +302 ...+ 752 °F = ± 35.6 °F
Constant data of low-pass filter of first order	2 s
Sampling rate	32 Hz

External firing rate input 0/4 ... 20 mA	
Measured value	bar, kPa, psi, mA and digit
Resolution	12 bit
Load	150 Ω
Sampling rate	>> 32 Hz

External firing rate input 0 ... 10 V	
Resolution	12 bit
Load	100 kΩ
Sampling rate	>> 32 Hz

External firing rate input - potentiometer input	
Resolution	12 bit
Load	5 kΩ
Sampling rate	>> 32 Hz

External firing rate DPS Input	
Sampling rate	>> 32 Hz

Analogue output 4 ... 20 mA	
Resolution	12 bit
Accuracy	0,02 mA
Load	500 kΩ
Sampling rate	>> 32 Hz

Fuel meter input (digital input)	
Input frequency max.	300 Hz
Cable length max.	10m

Digital inputs (setpoint switching and reserve input)	
Input frequency max.	300 Hz
Cable length max.	10 m

LAMTEC SYSTEM BUS	
Bit rate	125 kbit/s
Address	static LSB address, device family 1–4, selection with dip-switch
Termination	integrated, activation with dip-switch

Operating conditions	
Altitude above sea level	
≤ 2000 m NHN	Without restriction

Operating conditions	
2000 m < z ≤ 5000 m NHN	Use possible with the following restrictions: - Reduction of the maximum ambient temperature according to the diagram "Temperature derating LCM100 for operation > 2000m NHN" - Power supply 120 VAC - Units for 230 VAC not approved for use > 2000 m

Environmental Conditions		
Operation	Climatic conditions	Class 3K5 according to DIN EN 60721-3
	Mechanic conditions	Class 3M5 according to DIN EN 60721-3
	Temperature range	-20 ... +60 °C | -4 ... +140 °F (condensation is prohibited)
Transport	Climatic conditions	Class 2K3 according to DIN EN 60721-3
	Mechanic conditions	Class 2M2 according to DIN EN 60721-3
	Temperature range	-20 ... +70 °C | -4 ... +158 °F (condensation is prohibited)
Storage	Climatic conditions	Class 1K3 according to DIN EN 60721-3
	Mechanic conditions	Class 1M2 according to DIN EN 60721-3
	Temperature range	-20 ... +70 °C | -4 ... 158 °F (condensation is prohibited)
Electronic safety	Degree of protection (DIN EN 60529)	IP40 housing IP20 terminals
	Protection class (DIN EN 60730)	II

NOTICE

The limits of the technical data must be strictly adhered to.

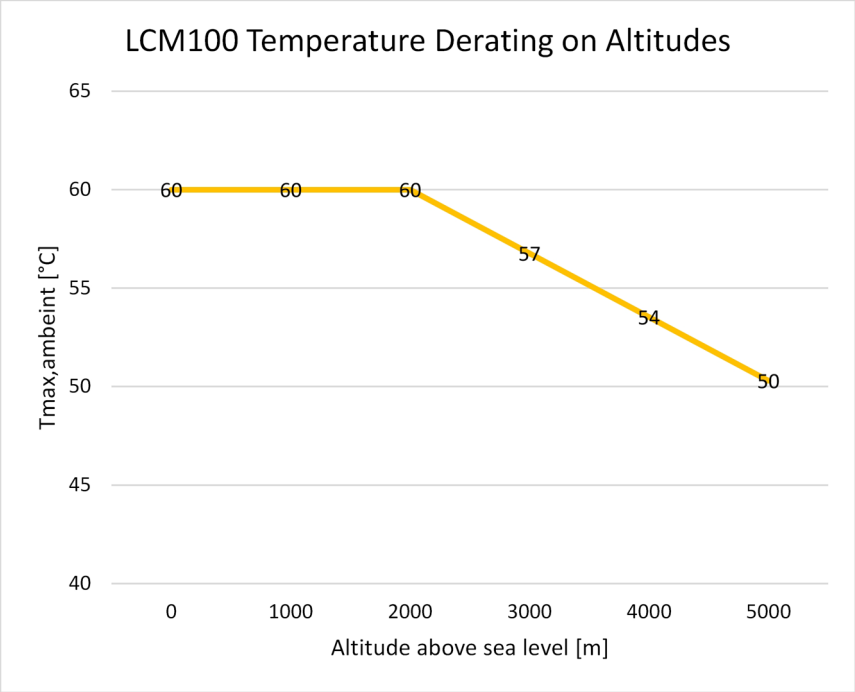

Fig. 2 Temperature derating LCM100 for operation > 2000 m NHN

Technical Data Load Controller Module LCM100

Order Information

Description / Type	Order-no.
LCM100 - Load Controller Module "Standard type", incl. LSB interface and 24 V power supply without connecting cable (must be ordered separately)	667R0500-1
Connecting cable, length 1 m	667P0515

Approvals

The information in this publication is subject to technical changes.

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