

Technical Data Load Controller Module LCM100

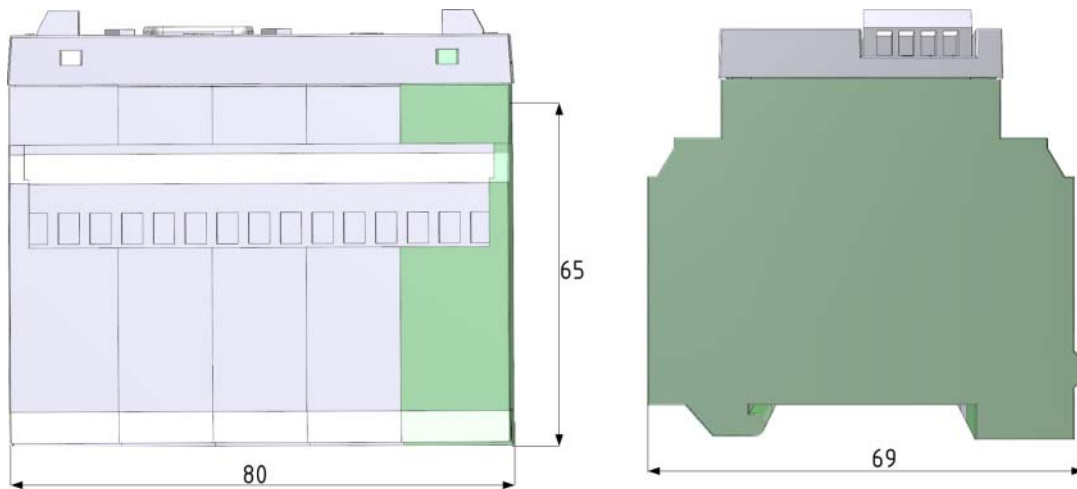


Fig. 1-1 Dimensions LCM100

| General data | |
|--|---|
| Power supply | 90 - 250 V 47 - 63 Hz |
| Power consumption | 18,2 VA |
| Housing | Polyamide 6.6 (panel: polycarbonate) |
| Dimensions (HxWxD) | 65x70x80 mm (2.56"x2.76"x3.15" 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 |

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External firing rate input 0/4 ... 20 mA

| | |
|----------------|-------------------|
| Measured value | bar, psi or digit |
| Resolution | 12 bit |
| Load | 150 Ω |
| Sampling rate | >>32 Hz |

External firing rate input 0 ... 10 V

| | |
|---------------|----------------|
| Resolution | 12 bit |
| Load | 100 k Ω |
| Sampling rate | >>32 Hz |

External firing rate input - potentiometer input

| | |
|---------------|--------------|
| Resolution | 12 bit |
| Load | 5 k Ω |
| 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 k Ω |
| 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 |

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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.

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 |



The information in this publication is subject to technical changes.



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