

Technical Data MCC



Fig. 1 Figure of MCC

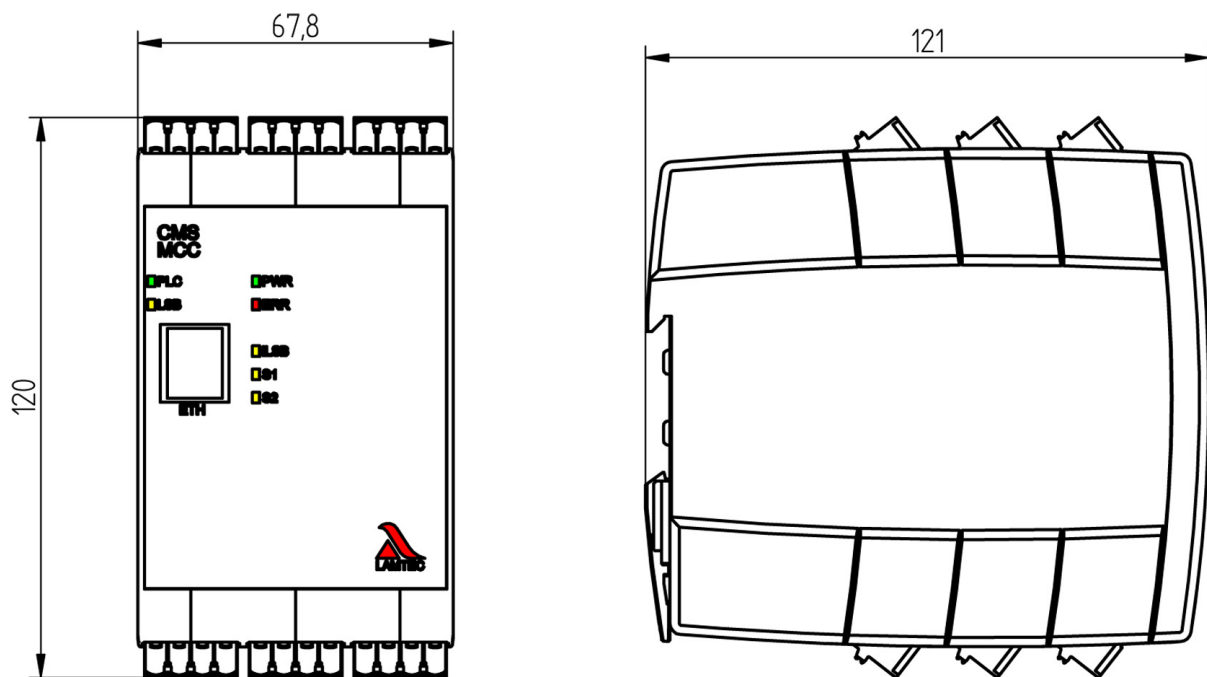


Fig. 2 MCC dimensional drawing

Part number

MCC – Master Control Component

Type 668R1000-XX*

* XX = dependent on the configuration

Technical Data MCC

Technical Data MCC				
Dimensions (H × W × D)	120 x 67.8 x 121 mm / 4.72 x 2.67 x 4.76" in			
Weight	0.505 kg / 1.11 lb			
Power supply:				
MCC	24 VDC +/-20 %, SELV			
Inputs	230 V/120 V +10/-15 %, 47-63 Hz, 24 VDC ± 20 %			
Outputs	230 V/120 V +10/-15 %, 47-63 Hz, 24 VDC ± 20 %			
Maximum backup fuse/outputs	8 A fast acting			
Current draw	minimum: 200 mA maximum: 335 mA			
Maximum power consumption	10 W			
Digital inputs		24 VDC	120 VDC	230 VDC
	nominal current	2.1 mA impedance 11 kΩ	2.1 mA impedance 75 kΩ	2.3 mA impedance 100 kΩ
	Since the inrush currents on the are low, use gold-plated silver contacts!			
	signal ON (min)	0.55 mA △ 6.9 VDC	0.97 mA △ 56 VAC	0.78 mA △ 77 VAC
	signal OFF (max)	0.27 mA △ 4 VDC	0.35 mA △ 21 VAC	0.35 mA △ 36 VAC
Digital outputs	$I_{max} = 2 \text{ A}$ per output, maximum total current over all outputs: 8 A $\cos\phi \geq 0.2$			
	For operation with SPS or similar, digital inputs: – Logical 1 = Output ON: U = 230 V/120 V/230 V inclusive tolerance – Logical 0 = Output OFF see see			
		24 VDC	120 VAC	230 VAC
	short circuit current	1.23 mA	1.41 A _{rms}	1.47 A _{rms}
	residual voltage by self-test functions see <i>Fig. 4 Residual voltage when output is switched OFF</i>)			
Flame sensor input	optical: flame sensor connection $U_{nom} = 27 \text{ V} \pm 1 \text{ V}$ Cable length max. FFS07/FFS08: 300 m / 984.25 ft, shielded FLS09: 100 m / 328.08 ft, shielded ionisation: supply voltage 230 VAC (120 VAC) $I_{min} = 1 \mu\text{A}$ $I_{max} = 50 \mu\text{A}$ Output for measurement values Ion Meas- and Ion Meas+ 0 ... 500 mV 1 mA corresponds to 10 mV			
Current output	0 ... 20 mA ± 2 % output current max.: 25 mA load max.: 1 kΩ, Use shielded cables only!			

Technical Data MCC

Analogue input	<p>Multifunctional input for the connection of:</p> <ul style="list-style-type: none"> – potentiometer (2 kΩ ... 10 MΩ) – current input 0/4 ... 20 mA, Ri = 150 Ω – voltage input 0 ... 10 V, Ri = 100 MΩ <p>reference voltage 10 V, short-circuit proof tolerance ± 2 % Use shielded cables only!</p>
Fieldbus	<p>MODBUS/TCP PROFINET LAMTEC SYSTEM BUS other Fieldbus protocols are using other modules.</p>
Flameability	UL94 V-0

Environmental Conditions

Operation	permitted temperature range	-30...+70 °C (non-condensing) -22 ... +158 °F
	permitted humidity	5% ... 95 % relative humidity
Transport/Storage	permitted temperature range	-40...+80 °C (non-condensing) -40 ... +176 °F
	permitted humidity	5 % ... 95 % relative humidity
Degree of protection	DIN EN 60529	IP20 (as long as all terminals are mounted)

NOTICE

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

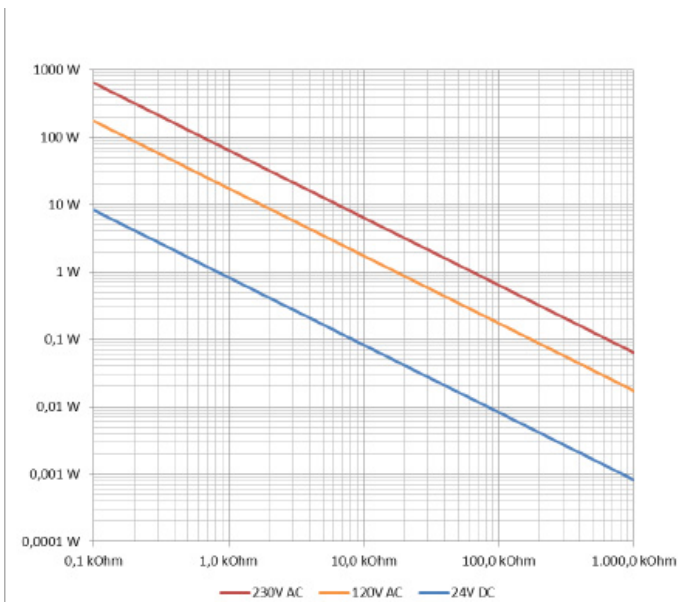


Fig. 3 Output of the additional resistor when the output is switched ON

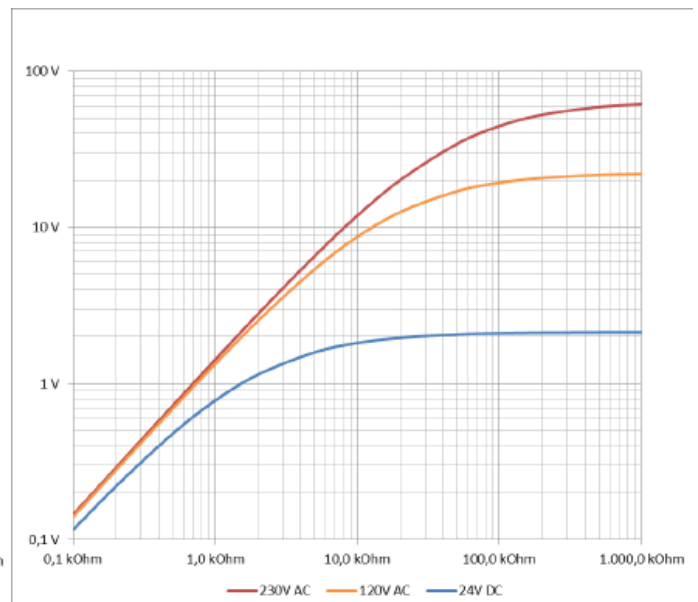


Fig. 4 Residual voltage when output is switched OFF

Technical Data MCC

Order Information

Description/Type	Order no. - selection
MCC Master Control Component, power supply 24 VDC/8 W Burner module	668R0100...
A 10 – VOLTAGE IN/OUT	Selection
INPUT 230 VAC/OUTPUT 230 VAC	230VAC
INPUT 120 VAC/OUTPUT 120 VAC	120VAC
INPUT 24 VDC/OUTPUT 230 VAC	24-230
INPUT 24 VDC/OUTPUT 120 VAC	24-120
INPUT 24 VDC/OUTPUT 24 VDC	24VDC
A 20 – FLAME MONITORING	Selection
EXTERNAL FLAME MONITORING VIA DIGITAL INPUT	0
INTERNAL FLAME MONITORING OPTICAL FFS...	OP
INTERNAL FLAME MONITORING IONISATION, SUPPLY VOLTAGE 120 VAC Only possible with a voltage increase transformer from 120 VAC to 140 VAC!	IO-120
INTERNAL FLAME MONITORING IONISATION, SUPPLY VOLTAGE	IO-230
A 30 – CUSTOMER	Selection
STANDARD	S
A 40 – COLOUR	Selection
BLACK (STANDARD)	SW
A 50 – CONNECTOR SET	Selection
SCREW TERMINALS Connector set included	SC
SPRING TERMINALS Connector set included	FED
WITHOUT Connector set not included, must be ordered separately, see „Separate Connector Sets for MCC“	0
A 60 – MEMORY EXTENSION	Selection
WITHOUT	0

Separate connector sets for MCC

when attribute 50 „CONNECTOR SET“ = selection „0“

Description/Type	Order no.
Screw terminals MCC input 120/230 VAC / output 120/230 VAC	668R0085
Screw terminals MCC input 24 VDC / output 120/230 VAC	668R0086
Screw terminals MCC input 24 VDC / output 24 VDC	668R0087
Spring terminals MCC input 120/230 VAC / output 120/230 VAC	668R0095
Spring terminals MCC input 24 VDC / output 120/230 VAC	668R0096
Spring terminals MCC input 24 VDC / output 24 VDC	668R0097



The information in this publication is subject to technical changes.



**LAMTEC Meß- und Regeltechnik
für Feuerungen GmbH & Co. KG**

Josef-Reiert-Straße 26

D-69190 Walldorf

Telefon: +49 (0) 6227 6052-0

Telefax: +49 (0) 6227 6052-57

info@lamtec.de
www.lamtec.de

