

THERMOSTAT MODULE

CH-CLS-THE-110

Product features:

To be installed in the wall behind switches or fixtures
2 switch inputs
RS-485 interface
15V power supply output for NGBS iCON thermostat
Optional NTC temperature sensor
Optional external temperature sensor
Status LED
LS bus daisy chain connector (max. 2A)



Parameter	Condition	Value			Unit
		Min	Typical	Max	
Power supply			12,0	15,0	V
Power consumption	with iCON		17,0	42,0	mA
Power consumption	without iCON		50,0	100,0	mA
LS bus daisy-chain max. current				2 000	mA
iCON power supply			15,0	16,0	V
iCON power current				300	mA
NTC temperature sensor resistance			10		kΩ
RS-485 receiver sensitivity	Rinput ≥ 12Ω		±200		mV
RS-485 receiver voltage			-7...12V		V
RS-485 Max. transmitter voltage	Routput = 54Ω			-7...12	V
RS-485 Min. transmitter voltage			±15V		V

Module label	Function
BUS/+	+12V dc
BUS/D	LS bus data line
BUS/-	Ground
BTNS/2	Button2 input
BTNS/C	Pushbutton common
BTNS/1	Button1 input
TMP/+	Power supply (+5Vdc) for thermometer
TMP/T	Thermometer signal
TMP/-	Ground for thermometer
BUS/+	+12V dc
BUS/D	LS bus data line
BUS/-	Ground
+15V	Power for thermostat
GND	Ground for thermometer
NTC	NTC thermometer connection point
NTC	NTC thermometer connection point
A	Thermostat RS-485 data
B	Thermostat RS-485 data

Status LED	Indication
slow flash	bootloader mode (first 3 sec after power supply)
frequent flash	software started and running
2 short blink	traffic

Environmental parameters	
Safety rating	IP 20
Temperature resistance	0-40 °C

Logistic data	
Weight	26 g
EAN	5999572900120
Dimensions (incl. connectors)	45 x 19 x 49 mm



CISPR 24 /IEC 61000-4-3/2006-09
 CISPR 24 /IEC 61000-4-6/2014-05
 CISPR 322015-11
 EN 505812013-02

Before installation, please study the Chameleon Electrical installation guide!



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Dimensions and Connection Diagram

