# ecue

## TRAXON | e(cue

## Genius 4CH

#### Genius 4CH

The Genius 4CH is a relay controller and energy meter that combines measuring and switching load in a single device. Communication with any third party system is made via the Modbus RTU / ASCII protocol at a RS-485 interface. The Genius 4CH provides four bistable relay interfaces in single-pole, single-throw configuration, accompanied by manual switches for service overrides. It is a modular basic solution for controlling lighting installations. The Genius 4CH is easily mounted on standard 35 mm DIN rails, or with a key hole in the housing base on walls or on any stable vertical surface. The Node is AC line powered.

#### Highlights

- Four bistable relay outputs SPST each for up to 20 A resistive load @ 230 V AC
- Measured data: Voltage,

current, power (active, apparent, reactive), power factor, energy (active), phase, line frequency, status

- Connectivity via Modbus RTU / ASCII
- Flexible mounting on 35 mm DIN rails or surfaces
- Delivery scope Identcode
- e:cue Genius 4CH
  - Printed Genius 4CH Information for Use, Safety instructions

AM38213003I

CELK

• USB A to USB Mini-B adapter cable

#### e:cue Interfaces

Lighting applications are heterogenous by nature. e:cue interfaces serve to integrate many networks, protocols and third party products into e:cue solutions. They also aid in applying special control functions for fixtures, they integrate analog or mechanical signaling into the digital world and offer bridging functions. e:cue interfaces are the links to bring together the many techniques and technologies of lighting control.

#### Product specifications

Dimensions (W x H x D)	106.3 x 90.5 x 62 mm/
	4.2 x 3.6 x 2.4 in
	(excl. fastening clip)
Weight	320 g / 0.71 lb
Input power	200-240V ±10% 50/60Hz AC
Power consumption	< 3 W
Operating temperature	0 50 °C / 32 122 °F
	for > 40 °C, only use max. 2
	channels up to 20 A load
Storage temperature	-10 70 °C / 14 158 °F
Operating / storage	0 80% RH, non-condensing
humidity	
	11
Overvoltage category	11
Installation conditions	IP20, not designed for outdoor use
0 0 /	
0 0 /	IP20, not designed for outdoor use
Installation conditions	IP20, not designed for outdoor use Intra-building connections only
Installation conditions Pollution degree	IP20, not designed for outdoor use Intra-building connections only II
Installation conditions Pollution degree IEC protection class	IP20, not designed for outdoor use Intra-building connections only II Class II
Installation conditions Pollution degree IEC protection class	IP20, not designed for outdoor use Intra-building connections only II Class II Self extinguishing blend PC/ABS
Installation conditions Pollution degree IEC protection class Housing	IP20, not designed for outdoor use Intra-building connections only II Class II Self extinguishing blend PC/ABS UL document E140692
Installation conditions Pollution degree IEC protection class Housing	IP20, not designed for outdoor use Intra-building connections only II Class II Self exting uishing blend PC/ABS UL document E140692 On 35 mm DIN rail (EN 60715) or

Interface specifications

Relay outputs	4 x SPST feed-through latching rela	ay with
	manual override, rising cage clamp	for solid
	and stranded wire,	
	wire gauge: 0.05 5.26 mm <sup>2</sup>	
	torque: 0.5 Nm	
	Nominal voltage per channel: 1152	30 V AC
	Contact rating	Cycles
	20 A, 230 V AC resistive load	1 x 10 <sup>5</sup>

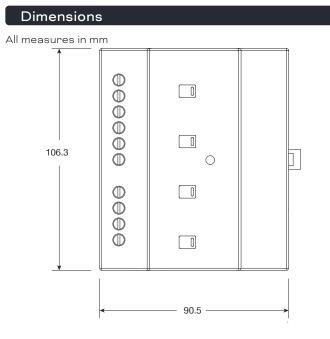
Continued on next page

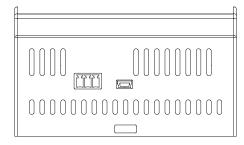
©2023 traxon technologies. All rights reserved

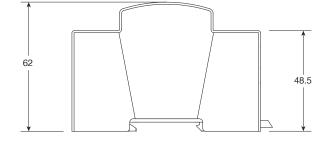
WWW.TRAXON-ECUE.COM

## Genius 4CH

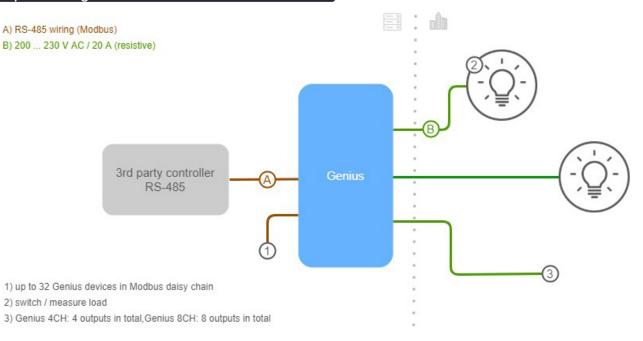
	4600 W, 230 V AC incandescent $3 \times 10^4$ lamp
	16 A, 230 V AC electronic ballast $6 \times 10^3$
	Inrush current: 500 A peak / 2 ms
	Max operate frequency per channel:
	10 ops. / min
Measured	Voltage, current, power (active, apparent,
data	reactive), power factor, energy (active),
	phase, line frequency, status
Measurement	± 3 %
tolerance	
Serial port	Modbus RTU / ASCII (RS-485), 3-pin
	pluggable connector
USB port	1 x Mini-USB, Type B
User	Combined LED for data activity and device
interface	status



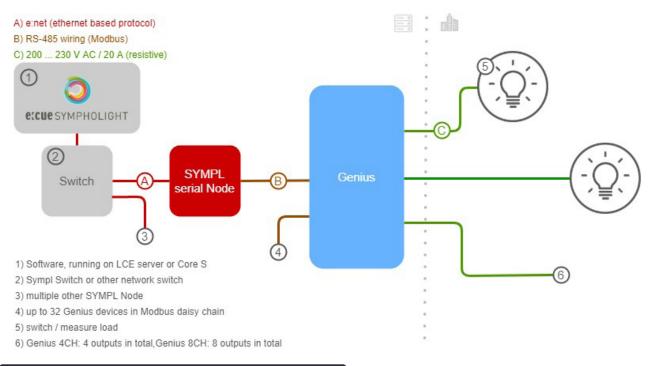




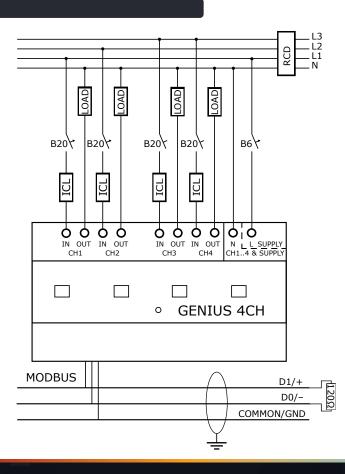
## System diagrams



©2023 traxon technologies. All rights reserved.



### Wiring diagram





## TRAXON | e(cue

©2023 traxon technologies. All rights reserved.