# Genius 8CH



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The Genius 8CH 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 8CH provides eight 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 8CH 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

- $\cdot$  Eight 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 8CH

AM38214003I

- · Printed Genius 8CH Information for Use, Safety instructions
- · 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)	213 x 90.5 x 62 mm/ 8.4 x 3.6 x 2.4 in (excl. fastening clip)	
Weight	600 g / 1.32 lb	
Input power	200-240V ±10% 50/60Hz AC	
Power consumption	< 4 W	
Operating temperature	-20 50 °C / -4 122 °F for > 40 °C, only use max. 4 channels up to 20 A load	
Storage temperature	-20 70 °C / -4 158 °F	
Operating / storage humidity	0 80% RH, non-condensing	
Overvoltage category	II	
Installation conditions	IP20, not designed for outdoor use Intra-building connections only	
Pollution degree	П	
IEC protection class	Class II	
Housing	Self extinguishing blend PC/ABS UL document E140692	
Mounting	On 35 mm DIN rail (EN 60715) or with key hole on any stable vertical surface	
Certificates	CE, RoHS, UKCA	

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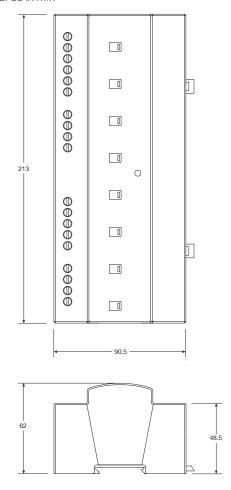


# Interface specifications

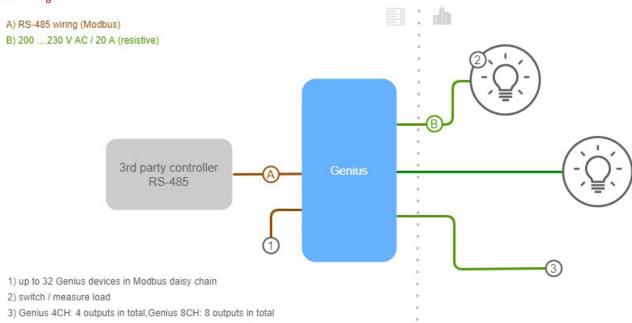
Relay outputs	8 x SPST feed-through latching relay with manual override, rising cage clamp for solid and stranded wire, wire gauge: 0.05 5.26 mm <sup>2</sup> torque: 0.5 Nm Nominal voltage per channel: 115230 V AC	
	Contact rating	Cycles
	20 A, 230 V AC resistive load	1 x 10 <sup>5</sup>
	4600 W, 230 V AC incandescent lamp	3 x 10 <sup>4</sup>
	16 A, 230 V AC electronic ballast	6 x 10 <sup>3</sup>
	Inrush current: 500 A peak / 2 ms	
	Max operate frequency per channel 10 ops. / min	:
Measured data	Voltage, current, power (active, apparent, reactive), power factor, energy (active), phase, line frequency, status	
Measurement tolerance	±3%	
Serial port	Modbus RTU / ASCII (RS-485), 3-pin pluggable connector	
USB port	1 x Mini-USB, Type B	
User interface Combined LED for data activity and device status		device

## Dimensions

All measures in mm



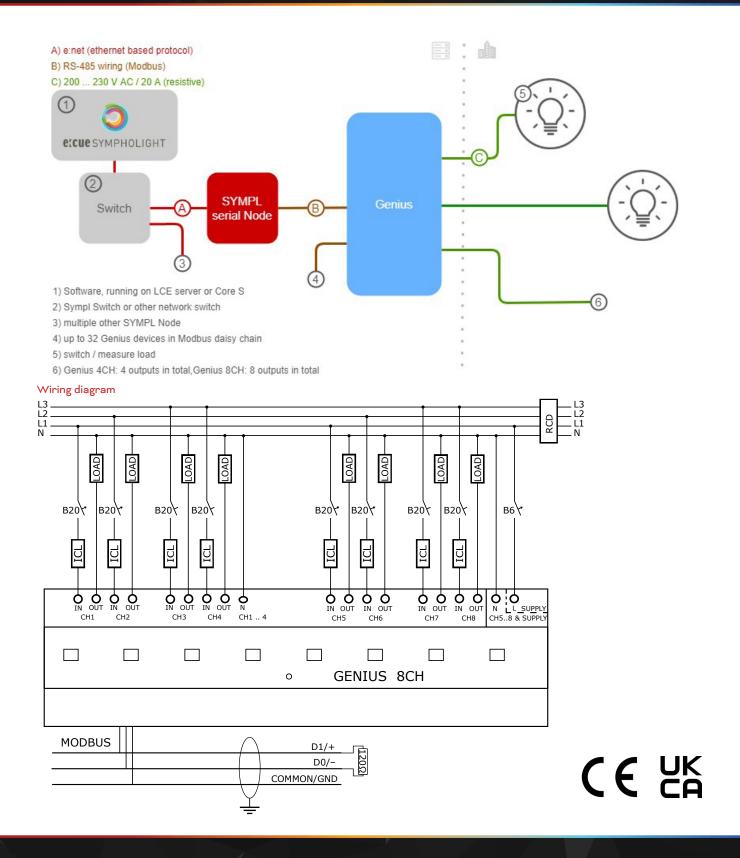
# System diagrams



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