Genius 4CH



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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

- \cdot 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

AM38213003I

- · Printed Genius 4CH 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)	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	-20 50 °C / -4 122 °F for > 40 °C, only use max. 2 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	II
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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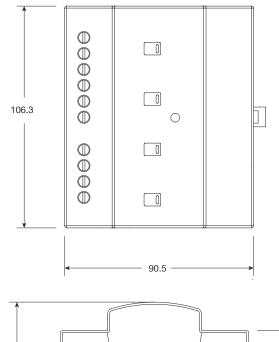


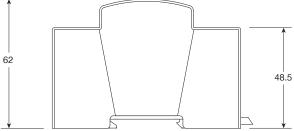
Interface specifications

Relay outputs	4 x SPST feed-through latching relay manual override, rising cage clamp for and stranded wire, wire gauge: 0.05 5.26 mm ² torque: 0.5 Nm Nominal voltage per channel: 115230	or solid
	Contact rating	Cycles
	20 A, 230 V AC resistive load	1 x 10 ⁵
	4600 W, 230 V AC incandescent lamp	3 x 10 ⁴
	16 A, 230 V AC electronic ballast	6 x 10 ³
	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	

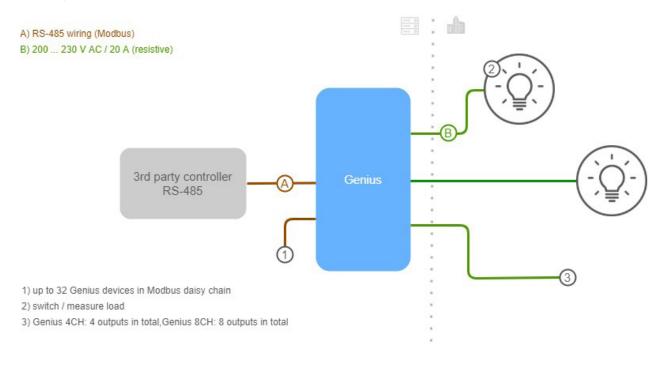
Dimensions

All measures in mm





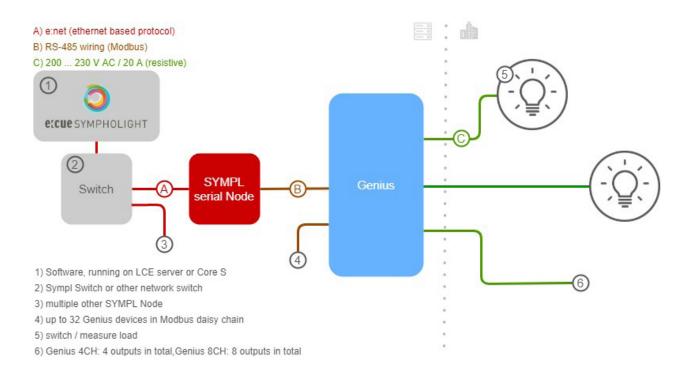
System diagrams



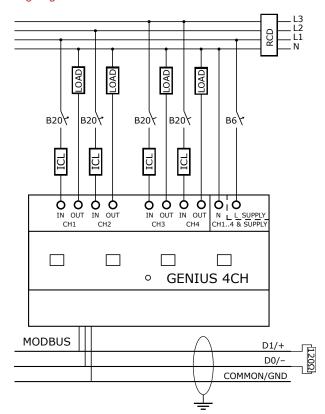
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Wiring diagram



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