

## GW-130 Wireless Node

### DESCRIPTION

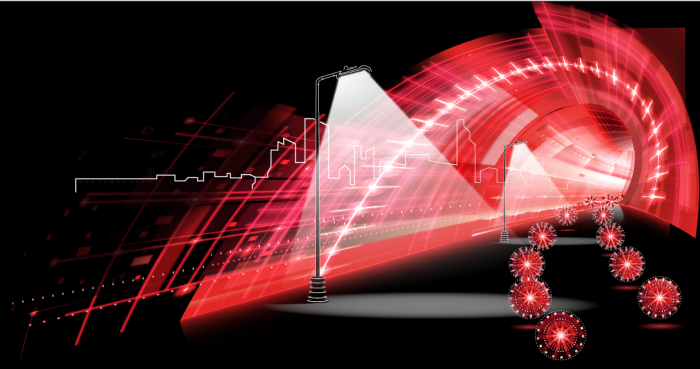
The GW-130 wireless node control is designed for roadway and area lighting. Basic functions include on/off and dimming control, as well as remote monitoring of current, voltage, power, power factor, operating time reading and electric energy.

### KEY FEATURES

- Wide input voltage: 105-305VAC
- Security: AES128 encryption
- IEEE 802.15.4 communication, auto-mesh
- Standard NEMA interface for easy installation
- Voltage, current, power, power factor, temperature and operating time reading
- Remote switch on/off
- Maximum internal 16A relay outputs
- Dimming interface: 0-10V (PWM available)
- LED lamp failure detection
- Fault detection and reporting
- Surge protection
- IP Rating: IP65 (SGS certified), Optional IP67 available
- 5/7-pin configuration



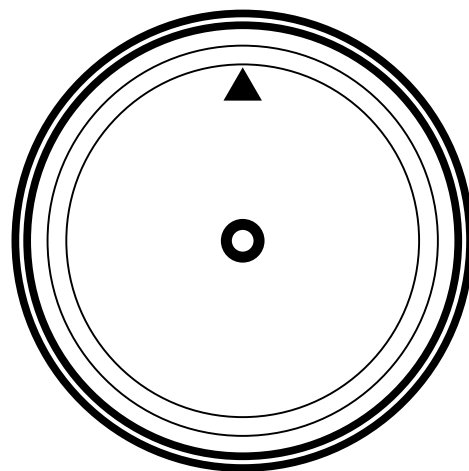
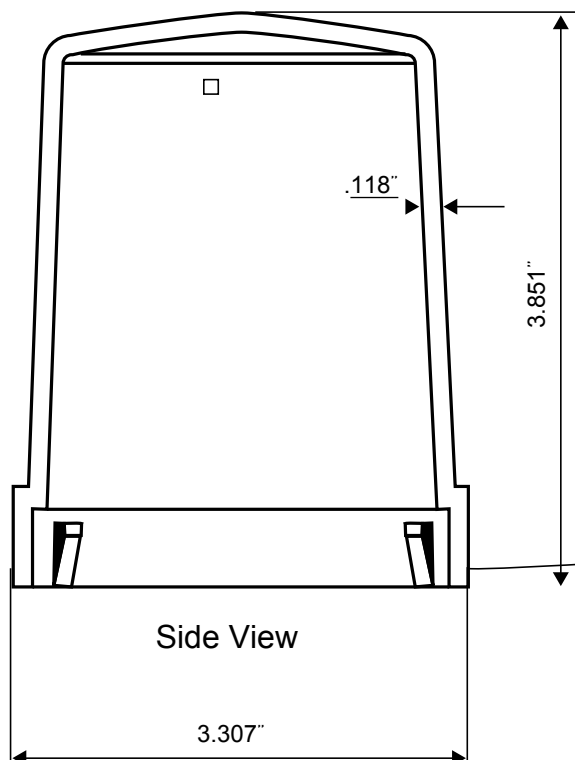
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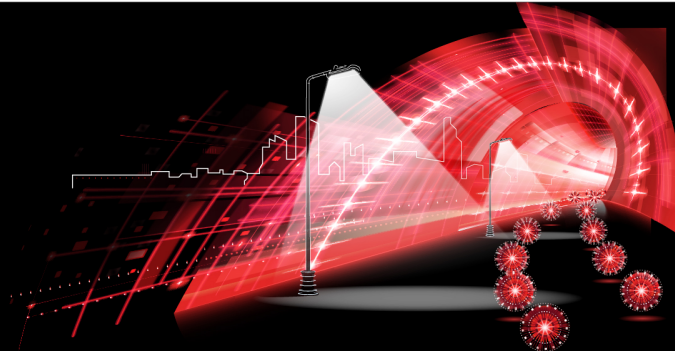


## BASIC SPECIFICATIONS

- Luminaire load: up to 1100W LED
- Maximum load inrush current: 100A
- Surge protection: 10KV, 5KA
- Operating temperature: -40° to 85°C
- Static power consumption: <2W
- Power consumption with luminaire off: <0.4W(120V); <0.5W(230V)
- Radio frequency: 2.4GHz ISM Band. Meets IEEE 802.15.4 standard.
- Security: AES128 encryption
- Failure mode: Fail OFF (Optional Fail ON)
- Complies with ANSI C136.10, C136.41 & C136.2
- Complies with FCC Part 15. Complies with UL773
- Warranty: 5-year standard

**Cover**



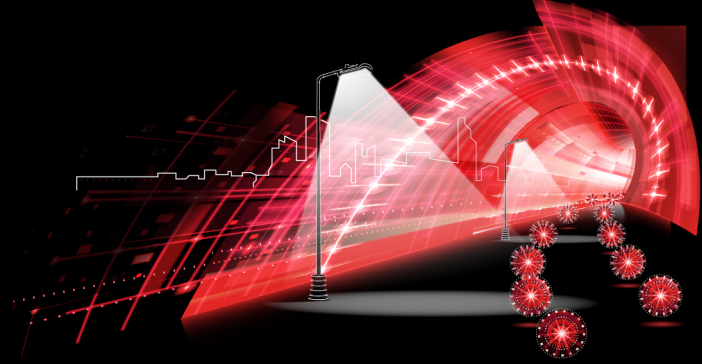


## CHARACTERISTICS

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
AC input voltage		105	/	305	VAC
Frequency range		50		60	Hertz
Power consumption		0.4	/	2	W
Dimming voltage		0	/	11	V
Dimming current	10V input	0	1	5	mA
Dimming accuracy		-1	/	+1	%
Metering voltage range		105	/	305	VAC
Metering current range*		0	/	5	A
Metering voltage accuracy		-2	/	+2	%
Metering current accuracy		-2	/	+2	%
RF transmission distance	Internal antenna	500	/	/	m
RF transmission rate		/	250	/	Kbps
RF band		2400	/	2483	MHz
RF receiver sensitivity		-98.8	/	/	dBm
RF transmitter		/	/	+20	dBm

\*At load current above 5 amps metering, accuracy may be reduced. Consult factory for details.

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Operating temperature		-40	/	70	C
Storage temperature	Indoor dry, well-ventilated place	-40	/	85	C
Relative humidity	Non-condensing	/	/	98	%
Vibration	C136.31	/	/	1.5	G
Warranty			5		years
Ingress	Not installed	/	IP54	/	
Ingress	Protection while mounted to luminaire		IP65		
Impact	Drop to concrete floor	/	1	/	meters
Flammability		UL94-V0			

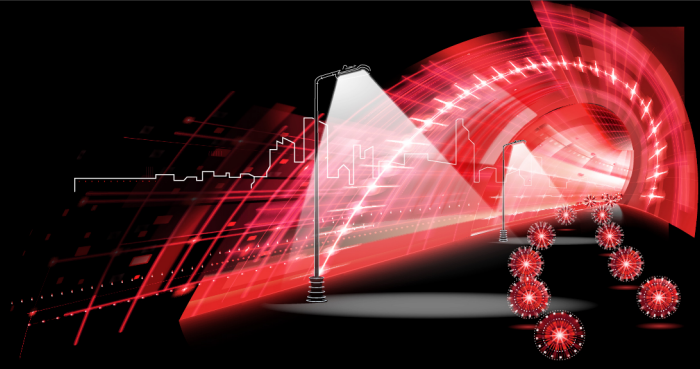


## SAFETY

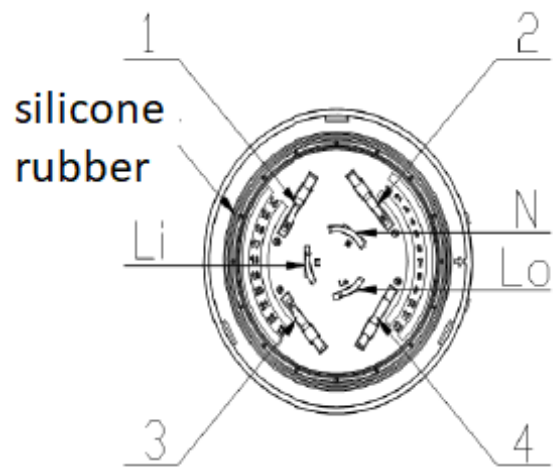
TYPE	Test level	
Isolation voltage	AC to Dimming terminals	3kVac,10mA,1min
Certification	UL773/EN61010-1/EN61347	

## ELECTROMAGNETIC CAPABILITY

TYPE	Standard	Test level
Electrostatic discharge immunity	IEC61000-4-2	Level 4
RFEMS	IEC61000-4-3	Level 2
Electrical fast-transient burst immunity	IEC61000-4-4	Level 4
Surge immunity	IEC61000-4-5 ANSI C136.2	Level X 10KV,5KA
Conducted disturbances induced by RF field immunity	IEC61000-4-6	Level 2
Power frequency magnetic-field immunity	IEC61000-4-8	
Electromagnetic disturbance characteristics	FCC PART15 Class B / EN55015	
Electromagnetic compatibility and radio spectrum matters (ERM)	EN300328/EN301489-1/EN301489-17/EN300440-2/ EN62479/EN61326-2-1	

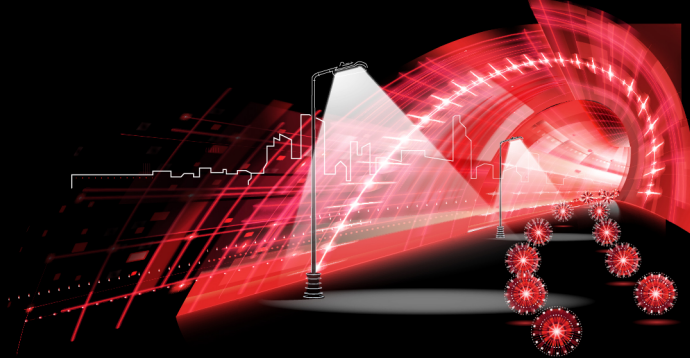


## INTERFACE



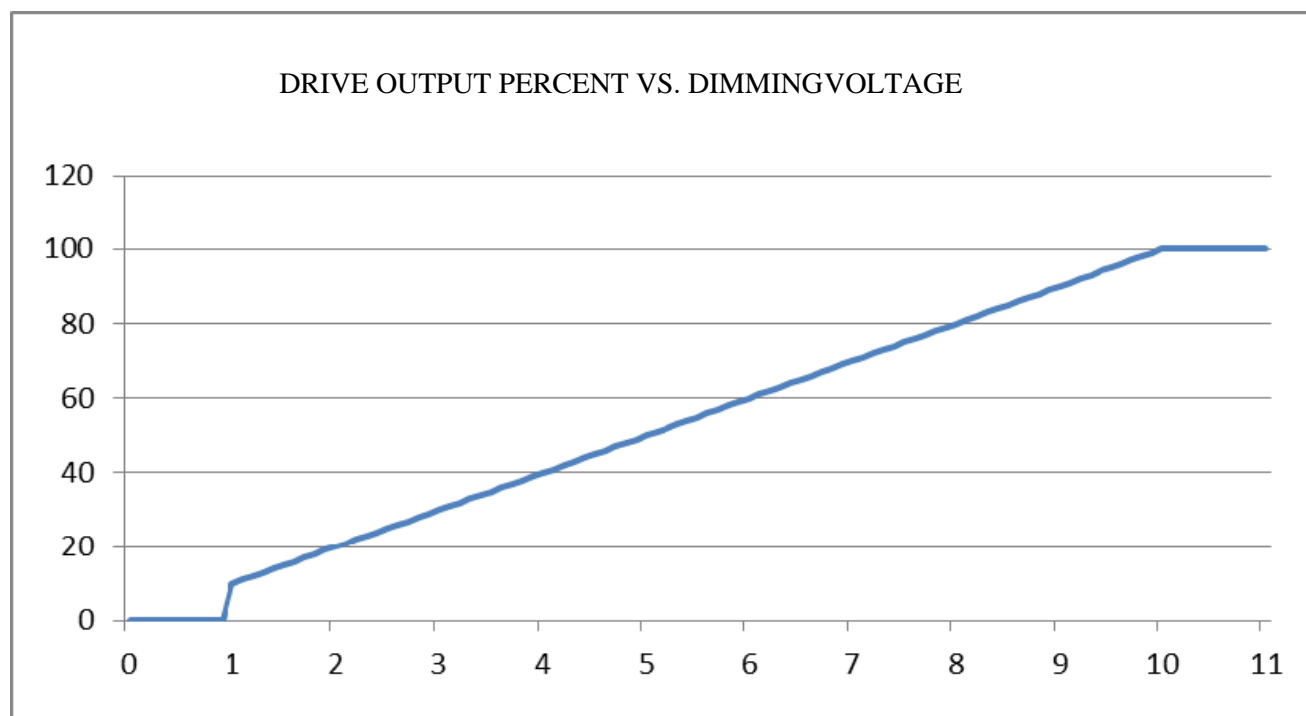
**PIN Li: AC line input**  
**PIN Lo: AC line output (to luminaire)**  
**PIN N: Neutral line**  
**PIN 1: CH1 Dim+**  
**PIN 2: CH1 Dim-**  
**PIN 3: open**

- A silicone rubber seal ensures IP65 ingress protection
- Complies with ANSI C136.41-2013

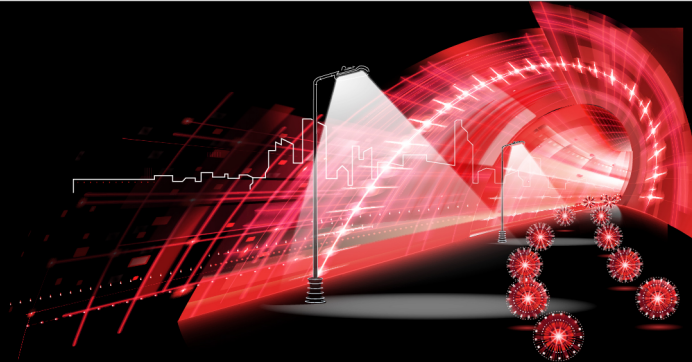


## DIMMING

DEFAULT DIMMING CURVE as shown below.







## RECEPTACLE



Use with TWIST-LOCK (ANSI C136.41) PHOTOCONTROL RECEPTACLE. (Conforms with 7-Pin Dimming & Standard 3- 5 Pin)

