



DATASHEET

Actis Plus

NEMA 7 EDITION

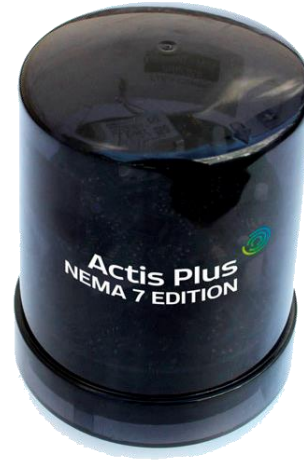


DESCRIPTION

Actis Plus Nema7 Edition is a Smart and autonomous device for the remote control of light points equipped with 1-10 V or DALI protocol drivers. Specially designed for every type of street light, including applications such as residential, urban and road. It is enabled with LoRaWAN communications and compatible with Nema 7 standard socket lamps.

KEY FEATURES

- Relay output and Real time clock for controlling luminaire's ON/OFF and activating the preset regulation profiles.
- Several ON/OFF control: remote, astronomical clock or photocell.
- Equipped with two dimming control: DALI protocol and 1-10V signals.
- PCB-mounted temperature sensor.
- Plug-and play installation for luminaires compatible with NEMA 7 standard socket.
- Energy meter included to measure main electrical parameters: voltage, current, energy, power factor, active and reactive power.
- Configurable deviation alarms based on reference measurement thresholds.
- Lamp accurate location through board integrated GPS.
- Wireless communication via RF LoRa according to standard LoRaWAN 1.0.1 for several frequency bands: EU868, US915, AU915, AS923, IN865.



TECHNICAL FEATURES

Communications

Version	LoRa EU	LoRa US	LoRa AUS/ ASIA	LoRa India
Frequency band	868 MHz	915 MHz	923 MHz	865 MHz
Power (Tx)	14 dBm	19 dBm	19 dBm	
Receiver sensitivity (Rx)	-137 dBm	-130 dBm	-130 dBm	-137 dBm
Compliance	LoRaWAN 1.0.1			
Antenna	External			

Dimming interfaces

DALI	12-20.5 VDC, 16 mA max; according to IEC 62386 part 101, 102, 104, 201,203,207
1-10	1-10 VDC, 16 mA max; according to IEC 60929 annex E

Electrical connection and Power supply

Voltage range	100 – 230VAC 50/60Hz
Voltage Max.	250 VAC
Lamp Load	4A
Power consumption	< 1 W

ORDERING CODES

AN-00-LW-EU Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, LoRaWAN EU868
AN-00-LW-US Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, LoRaWAN US915
AN-00-LW-AU Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, LoRaWAN AU915
AN-00-LW-AS Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, LoRaWAN AS923
AN-00-LW-IN Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, LoRaWAN IN865
AN-S0-LW-EU Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, GPS, ACC, MEMORY, LoRaWAN EU868
AN-S0-LW-US Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, GPS, ACC, MEMORY, LoRaWAN US915
AN-S0-LW-AU Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, GPS, ACC, MEMORY, LoRaWAN AU915
AN-S0-LW-AS Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, GPS, ACC, MEMORY, LoRaWAN AS923
AN-S0-LW-IN Actis Plus Nema 7 device, Nema7 socket, relay output, network analyzer, Interface 1-10V&DALI, GPS, LoRaWAN IN865
AN-01-LW-EU Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor&DALI-2 bus Powersupply, LoRaWAN EU868
AN-S1-LW-EU Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor Powersupply, GPS, ACC, MEMORY, LoRaWAN EU868
AN-01-LW-US Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor&DALI-2 bus Powersupply, LoRaWAN US915
AN-S1-LW-US Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor Powersupply, GPS, ACC, MEMORY, LoRaWAN US915
AN-01-LW-AU Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor&DALI-2 bus Powersupply, LoRaWAN AU915
AN-S1-LW-AU Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor Powersupply, GPS, ACC, MEMORY, LoRaWAN AU915
AN-01-LW-AS Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor&DALI-2 bus Powersupply, LoRaWAN AS923
AN-S1-LW-AS Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor Powersupply, GPS, ACC, MEMORY, LoRaWAN AS923
AN-01-LW-IN Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor&DALI-2 bus Powersupply, LoRaWAN IN865
AN-S1-LW-IN Actis Plus Nema 7 device, Nema7 socket, relay output, analogic&digital input, network analyzer, Interface 1-10V&DALI-2, Sensor Powersupply, GPS, ACC, MEMORY, LoRaWAN IN865

TECHNICAL FEATURES

Functional features

Switching function	Astronomic clock, ONWON (Luminaire is ON WHEN power supply is ON), soon SHEET
Dimming regulation	Remote or Preset (16 available profiles: 7 different profiles reserved for each week day and 9 profiles for 9 specific days)
Alarms	Voltage, current, power and power factor deviations
Accelerometer	Integrated
GPS	Compatible with: GPS, GLONASS, BeiDou/Compass
Storage	More than 2k memory records in case of communications failure

Network analyzer features

Measurements	Voltage, current, energy, power factor, active and reactive power
Accuracy	<0.02%

Environmental and Operating conditions

Operating temperature range	-20° to 65°C
Protection class	IP-67
Lifetime	MTBF>150.000 according to Telcordia SR-332

Mechanical features

Socket	NEMA 7- 108-32125 ANSI C136.41-2013
Dimensions	98 mm high & 76 mm diameter
Weight	180 gr.
Material	Base (94 V0) - cover (Polycarbonate)

