

FEATURES

- 120V 12A
- UL Certification
- ZigBee Pro
- Surge Protected
- RoHS
- Title 24 Part 6 Compliant
- Probe Port

DESCRIPTION

The IS-302P is a dual smart socket which meters plug load energy usage and provides device on/off capability. It works with other IntelISockets™ to form a secure wireless mesh network for control and reporting of data. The “P” model includes a Probe Port for a DS18B20 based digital thermometer or door/window switch contacts.



PERFORMANCE

Parameter	Symbol	Min	Typ	Max	Units
Input Voltage (RMS)	V _{IN}	108	120	132	V
Input Frequency			60		Hz
Output Current (RMS)	I _{OUT}			12	A
Power Consumption			1.2		W
Reporting Interval		4	15	60	s
Accuracy (Energy)				0.5	%
Accuracy (Voltage)				1	%
RF Range			50		m
Resolution		1			W-s
RF Transmit Power			11		dBm
ZigBee Channels		11		26*	
ZigBee Hive		0x3000		0x3FFF	
Size		4.5 x 2.75 x 1.4			inches
Temperature Probe Range		-55		+125	C

* Channel 26 limited to 3dBm

COMPLIANCE

Agency	File
UL916 – Energy Management Equipment	E470522
ZigBee Profile (Plover)	0x114B
FCC	2AECN302

ENVIRONMENTAL

Parameter	Symbol	Min	Typ	Max	Units
Operating Temperature	T _O	0	25	40	C
Storage Temperature	T _S	-40		100	C
Relative Humidity	RH	0		95	%

* IntelISockets are for indoor use only.

PUSHBUTTON / LED

Action	Result
Press (no hold)	Toggle outlet state (on/off).
Pressed while plugging in	Ignored.
Press and hold 3+ seconds	Soft reset. Re-start socket. Similar to plugging in.
Press and hold 8+ seconds	Hard reset. All conditions are set to default. Normally this sets socket back to FACTORY channel and hive. However, if socket has been deployed on CUSTOMER channel and hive, a hard reset will then toggle between FACTORY and CUSTOMER settings. This is a useful feature to correct a socket that has been accidentally reset to FACTORY. It also provides a quick method to perform a manual self-heal. If on FACTORY, LED will be red, CUSTOMER green.

Color	Meaning
Black	Socket has no power.
Yellow	Boot-up sequence in effect. Typically ½ second duration.
Flashing Red or Green	Socket is attempting to join mesh network.
Red	Outlet is off.
Green	Outlet is on.

DUAL OUTLETS

Outlets on the IS-302P are metered separately, although only one of them can be turned off. The “always on” outlet is meant to be used for monitoring a device such as a computer or lamp, providing an indication of a user’s presence (occupancy detection), which then automatically turns on the “controlled outlet (having set an appropriate power threshold). Such behavioral control can potentially lead to greater savings than fixed time schedules.

PROBES

The Probe Port can accommodate a 1-wire DS18B20 digital thermometer using a 2.5mm audio plug (IP-301); with tip providing 3.3V power, ring data, and shield return ground. Similarly, a door switch can be wired between ring and shield such that contacts are closed when door is closed, providing an active pull-down. If sensor wire is broken or probe is unplugged, it is assumed door is no longer closed (go / no-go decision). The IS-302P automatically detects which probe type is installed.

TITLE 24

The IS-302P is Title24 compliant.

FCC

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user is cautioned that changes and modifications made to the equipment without the

approval of manufacturer could void the user's authority to operate this equipment.

To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.