



SPECIALTY DEVICES

WPG-1SC WIRELESS METER PULSE GENERATOR

DESCRIPTION

The WPG-1SC Wireless Meter Pulse Generator is SSI's wireless Pulse Link to the ITRON Gen5/Riva meter. It integrates AMI smart meter technology with legacy KYZ pulse metering. Using a dedicated WiFi network, the WPG-1SC receives usage data from the Riva's HAN network, interprets power usage, and converts it into KYZ pulses. With the WPG-1SC, pulses are synthesized without having an actual KYZ output in the meter. By using the WPG-1SC, utilities can implement the new advanced AMI meters and still provide pulses to customers that may need them.



The WPG-1SC features integral Wifi radio module and two KYZ pulse outputs, in a polycarbonate NEMA 4X enclosure. As the WPG-1SC receives periodic data from utility's meter, the data is read and interpreted to obtain the current demand information. Accumulated energy is computed, and pulses are outputted according to a selected pulse value.

All system settings are accomplished through a USB programming port that provides for pulse value, meter multiplier, output mode, and pulse timing. The output is selectable as either Form A (2-Wire) or Form C (3-Wire) and operates in either the momentary or toggle mode, respectively. The momentary mode has six pulse width time settings: 25mS, 50mS, 100mS, 200mS or 500mS and 1000mS. The toggle mode toggles back and forth to the opposite state upon each new pulse being generated. There are two LED's, one red and one green, which show pulse output status.

The output pulse value is selectable from 1 to 99999 watt-hours per pulse. A meter multiplier of 1 to 99999 may be programmed into the WPG-1SC using the SSI Universal Programmer software.

A 30mS fixed minimum-off time delay prevents pulses from occurring too rapidly. Bright red, yellow and green LEDs monitor the system communications status and provide an easy and immediate visual system check without test equipment.

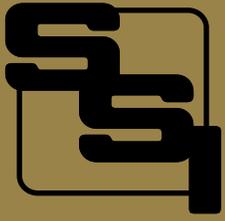
The WiFi module must be paired or "provisioned" with the AMI meter with the Meter's HAN network radio, a process that is performed by the participating utility or on the utility's website. Once paired with the meter, the WPG-1SC will begin receiving information from the meter and generating pulses.

The WPG-1SC is compatible with Self-Contained or Instrument-rated electric meters. The WPG-1SC's USB programming port is used to enter the specified site's meter multiplier from 1 to 99999. In addition, the WPG-1SC can be configured for Normal mode (kWh delivered only) for unidirectional energy flow, or for Signed mode (kWh delivered and received) for bi-directional energy flow. The WPG-1 also supports End-Of-Interval capability with a Form A (2-wire) output for intervals over a wide range.

FUNCTIONAL SUMMARY

	IN	OUT
#	1	2+1
TYPE	WIFI	2 Wire or 3 Wire
FORM	---	2 A or C, 1 A for EOI

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SPECIFICATIONS

ELECTRICAL

Power Input:	120-277 VAC. Burden: ~12 VA
Input:	Wifi HAN Network with Riva meter
Output:	Two Form A (2-Wire) or Form C (3-wire) Solid State dry-contact outputs rated at 100mA at 120V, 800mW maximum, fused at .1A; One Form A (2-Wire) Solid State
Maximum Pulse Output Rate:	≈15 Pulses per second (Form C) ≈10 pulses per second (Form A)
Minimum Time between Output Pulses:	30ms
Form A Pulse Width:	25, 50, 100, 200, 500, 1000 mS
Output Pulse Values:	1-99999 Wh/pulse
End of Interval Output:	1 Form A (2-wire) output for EOI
Interval Lengths:	1, 5, 10, 15, 30, 60 minutes
Interval Pulse Widths:	50, 100, 250, 500, 1000, 2000, 5000, 10000mS

MECHANICAL

Mounting:	Any position
Enclosure Type:	NEMA 4X Weatherproof and Dustproof
Size:	9.5" wide, 11.5" high, 4.5" deep
Weight:	8 pounds

TEMPERATURE

Temperature Range:	-40° C to +70° C, -40° F to +158° F
Humidity:	0 to 98% non-condensing

AVAILABLE OPTIONS

Input Voltages:	Contact factory
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