Wireless Pulse Counter ZPC-10/ZPC-20



FEATURES

- > Easy to install and commission
- > Mains- and battery-powered versions available
- > Pulse frequency up to 4Hz (battery) /30Hz (mains)
- Battery life up to 10 years (subject to pulse frequency and reporting interval)
- > On-board data logging of up to 10,000 data points
- > Waterproof polycarbonate enclosure
- > Fully wireless communications
- > Wireless range up to 300m (LoS)
- > Dimensions (LxWxH): 144mm x 112mm x 35mm
- > Self-healing mesh network
- > 2.4GHz ISM band ZigBee® wireless radio
- > Fully secure communications: 128-bit AES encryption
- > Over-the-air software upgrade capability



INTRODUCTION

The ZPC Wireless Pulse Counter interfaces to electricity, water and natural gas utility meters. Pulse readings are reported to the NGR-30 Smart Gateway at a configurable interval. Large networks of multiple ZPC units can connect to the Smart Gateway and deliver data to a central location for detailed analysis of energy and water consumption data. If wireless communications break down, up to 10,000 data points will be logged automatically.

The ZPC unit has on-board ZigBee wireless communications, is housed in a waterproof polycarbonate enclosure, and is available as a battery-powered unit (ZPC-10) or a mains-powered unit (ZPC-20).

APPLICATIONS

The ZPC is designed for situations where a legacy utility meter exists and retrofit of additional metering equipment is difficult or unnecessary.

In data centers or manufacturing plants, facility managers may not be able to disconnect an electricity or gas supply, but may have access to a pulse output from existing meters.

The ZPC is an extremely rugged, cost-effective and easy-to-deploy solution for monitoring legacy utility meters within commercial and industrial buildings.





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Wireless Pulse Counter ZPC-10/ZPC-20

SPECIFICATION

112mm 4.41 inches

1.3

35mm 1.38 inches



Dimensions for ZPC-10 /ZPC-20 Wireless Pulse Counter

Ordering Code	ZPC-10 ZPC-20	Battery-Powered Wireless Pulse Counte Mains-Powered Wireless Pulse Counter
Max. Pulse Frequency	4 Hz (battery)/30Hz (mains)	
Min. Pulse Length	10 mS	
Battery (ZPC-10 only)	Lifetime	up to 10 years (30 min reporting interval)
	Туре	Lithium Thionyl Chloride (permanent)
Certification	Certification	CE
Wireless Technology	Radio Technology	ZigBee Pro
	Radio Frequency	2.4 Ghz ISM Band
	Channels	16 Channels (11 - 26)
	Max Tx Power	+3dBm (+5dBm in Boost Mode)
	Rx Sensitivity	-98dBm @ 1% Packet Error Rate
	Data Rate	up to 250 kbits/sec
Wireless Range	Indoor Range	up to 50m
	Outdoor Range	up to 300m (direct line of sight)
Security	Encryption	128-bit AES Encryption
Physical	Dimensions (LxWxH)	144 x 112 x 35 mm
	Weight	150g
	Mounting	Wall Mounting Holes
	Enclosure	Polycarbonate, Waterproof (IP67)
Operating Conditions	Operating Temperature	-40°C to +85°C
	Operating Humidity	up to 80% (non-condensing)





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