



# GATEWAY SECURITY

#### SENSOR COMMUNICATION SECURITY

Bz-com sensor to gateway secure wireless tunnel is generated using ECDH-256 (Elliptic Curve Diffie-Hellman) public key exchange to generate a unique symmetric key between each pair of devices. Sensors and gateways use this link specific key to process packet level data with hardware accelerated 128-bit AES encryption which minimizes power consumption to provide industry best battery life. Thanks to this combination, Bz-com proudly offers robust bank-grade security at every level.

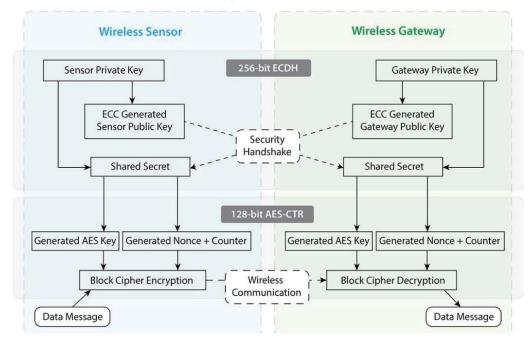
## DATA SECURITY ON THE GATEWAY

The WISE Ethernet Gateway 4 is designed to prevent prying eyes from accessing the data that is stored on the sensors and on Bz-com PORTAL. The WISE Ethernet Gateway 4 does not run on an off the shelf multi-function OS (operating system). Instead it runs a purpose specific real-time embedded state machine that cannot be hacked to run malicious processes. When fully secured after initial configuration steps, the gateway provides no active interface that can be used to gain access. The fortified gateway prevents snooping of sensor traffic, keeping your sensitive data from malicious parties and secures the gateway from becoming a relay for malicious programs.

## SERVER COMMUNICATION SECURITY

Communication between your WISE Ethernet Gateway 4 and Bz-com PORTAL is secured by packet level encryption. Similar to the security between the sensors and gateway, the gateway and server also establish a unique key using ECDH-256 for encrypting data. The packet level data is encrypted end to end removing additional requirements to configure specialized VPN's. The gateway can still operate within a VPN if it is present.





#### How Encrypt-RF™ Works