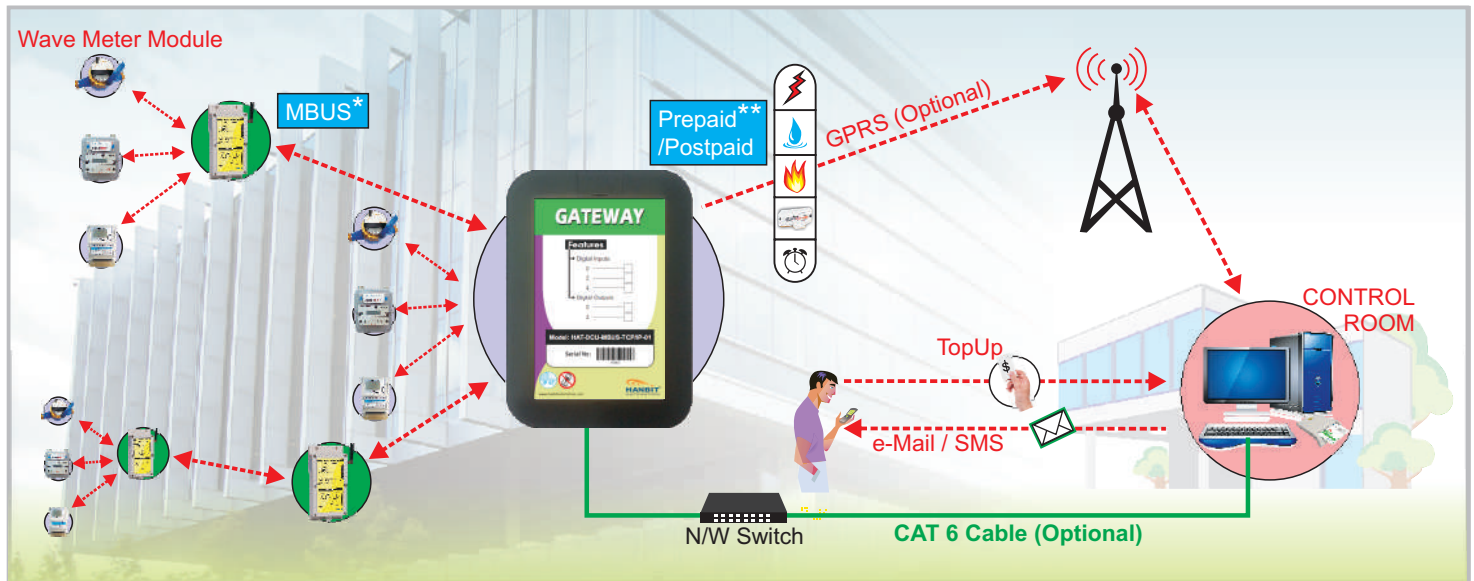## SYSTEM OVERVIEW

* LoRa, MODBUS Optional

** Two way communication for prepaid application

The Anybus M-Bus to TCP gateway allows M-Bus devices to communicate on a TCP network. The gateway decodes M-Bus telegrams making it possible to map meter values to Software registers. This enables central control and supervision of measuring devices which usually use the M-Bus protocol.

Make M-Bus measuring devices talk TCP

The HANBIT M-Bus to TCP gateway decodes M-Bus protocol for easy overview and mapping of meter values. You can connect multiple M-Bus slaves to the gateway and enable them to communicate on a TCP network.

What you get:

• Data on the consumption of electricity, water or gas onto TCP (or any industrial other network).
• A total overview of your site's consumption, including building parameters (electricity, water, gas etc.)
• Easy web-based configuration tool. No programming required.
• No hardware or software changes are required for the connected M-Bus device.

Easy configuration

The accompanying web-based configuration tool allows you to set up the gateway in an easy-to-use web interface. No programming is necessary.

ROUTER

The wave router boosts the radio signal. If the distance between the meter and the concentrator is short then a router may not be required, alternatively if the distance is very long, then more than one router may be necessary in order to hop the signal to the wave concentrator. On start up the wave router will search for the wave modules within its range, and issue each one with a Network Identification. After a specified period of time each module will wake up and send the Wave Router the number of pulses that have been generated since the last successful transmission, together with any alarms that may have been generated. The wave router will then instantaneously transmit this data to the wave Concentrator.

TECHNICAL SPECIFICATIONS

GATEWAY	ROUTER
Technical Details	**Technical Details**
Operating Frequency : 433/865/868/915MHz	- Based on the IEEE Standard
Dimensions (L•W•H) : 146 • 107• 36 mm	
Protection class : IP67	- Operates in Unlicensed Bands, ISM 2.4 GHz / 433 MHz (Europe) / 865 MHZ at 250kbps
Enclosure material : Abs Plastic	
Data rate : 300 to 19 200 bps	
Max number of M-Bus loads : 250	- Available in 125/1000 mW power levels w.r.t
Mounting : Pole/Clamp/Direct on Wall	
Connectors M-Bus : Screw terminal, max. 2.5 mm²	- Available in 300/1000 meters range LOS
Connector Ethernet : 100 MBit, RJ45, shielded	
IP-address : Configurable or via DHCP	
Input : MBUS (Optional LoRa, MODBUS)	- Low power modes upto5uA
Output : GPRS, TCP/IP	- Network Join / Formation in milli-seconds
Electrical Characteristics	
Power supply : 230VDC (Optional Battery Operated)	- Capable of handling multiple wave meter modules
Environmental Characteristics	
Current consumption : Max 300 mA	
Operating temp : 0 to 50 °C	
Storage : -25 - +85 °C	

Typical Industries

Mechanical Dimensions

107mm

146mm

36mm