

Heat Network Metering

The Heat Network (Metering and Billing) Regulations 2014 implement the requirements in the Energy Efficiency Directive (EED) with respect to the supply of distributed heat, cooling, hot water and cold water.

The regulations cover two types of heat networks:

District Heat Networks means the distribution of thermal energy in the form of steam, hot water or chilled liquids from a central source of production through a network to multiple buildings or sites for the use of space heating or process heating, cooling or hot water.

Where a remote source is supplying multiple buildings and each building has multiple occupants, this is still considered a district heat network.

Communal Heating means the distribution of thermal energy in the form of steam, hot water, or chilled liquids from a central source in a building which is occupied by more than one final customer, for the use of space heating, process heating, cooling or hot water. It is not necessary for the heat supply to be within the building, only that a single building is making use of the heat.

Invisible Systems solution:

Using our GPRS Gateway, cloud server and Realtime-Online software solution, building a heat network metering system is simple, cost effective and robust.

Choose from a range of simple **clamp on** heat & flow meters, (depending on flow and pipe diameter), which come with required temperature probes, and connect via **wireless RF** transmitters to the system Gateway.

- ✓ Offices used by multiple organisations
- ✓ Sheltered and social housing
- ✓ Residential care homes
- ✓ Shopping centres
- ✓ Universities
- ✓ Hospitals



Product Details

Installation

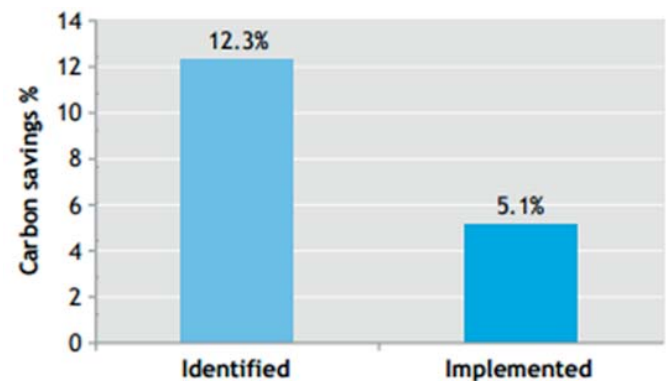
- ✓ Clamp on meters
- ✓ Wireless RF Transmitters
- ✓ GPRS Gateway
- ✓ Sub - Metering

Reporting:

- ✓ kWh, Flow
- ✓ Flow & Return Temperature
- ✓ Cloud based software
- ✓ Realtime-Online™ reports
- ✓ Reports via email

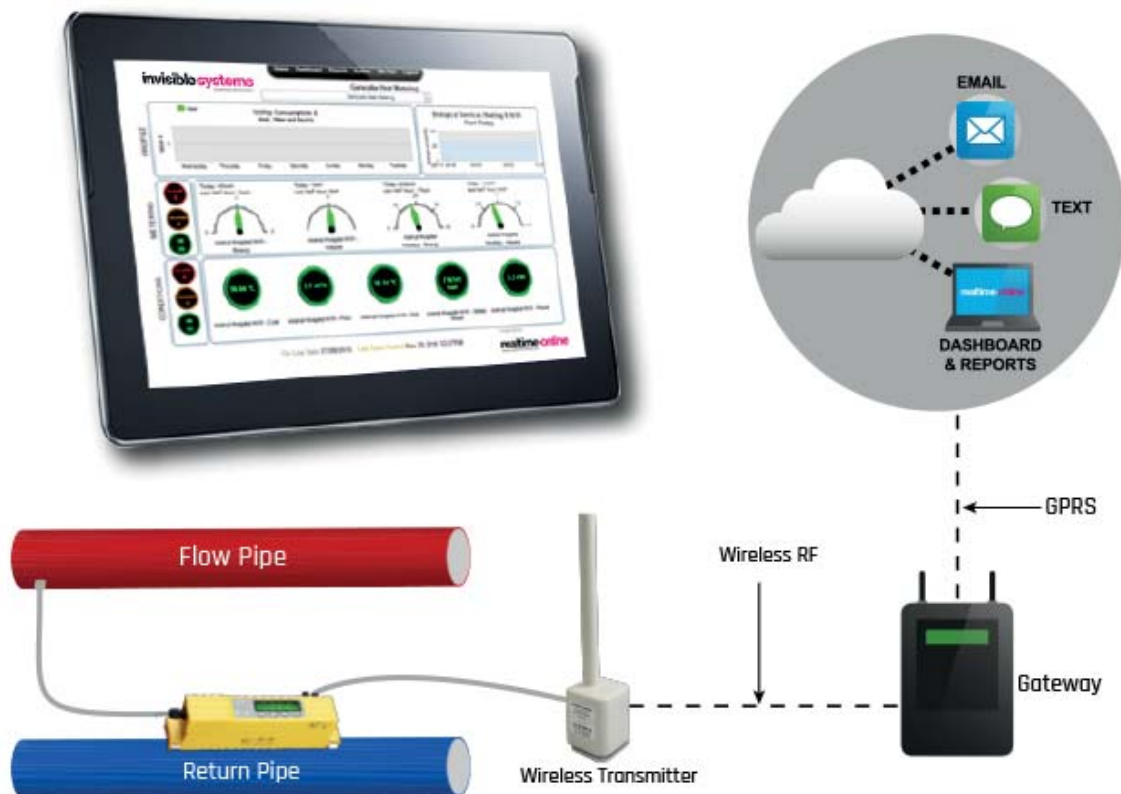
Benefits

- ✓ Non-Intrusive Solution
- ✓ Wireless connectivity
- ✓ Automated reports
- ✓ Expandable system



Using advanced metering an average of 12% carbon savings can be identified. **Carbon Trust**

System Concept



System Components

Part Number	Description	Details
600-630-6323	Flow Meter	Pipe Dia 25-115mm
600-630-6362	Heat Meter	Pipe Dia 25-115mm
600-630-6302	Flow Meter with probes	Pipe Dia 30-2000mm
600-630-6360	Heat Meter - Calec II	For use with above
3999-913-2188	Modbus Transmitter	Mains Powered
3999-902-1421	GPRS Gateway	Up to 200+ Sensors
Realtime-Online	Activation & Housing	Based on No Points

Timeline for Compliance

18th December 2014 - The fitting of building level meters is required

31st December 2014 - Heat suppliers must meet billing requirements for new builds

31st December 2015 - New builds schemes to be register with BEIS

Feasibility tool to be launched 2017 for fitting of customer meters

Where meters are not deemed feasible a review must be done every 4 years