DMS METERING SOLUTIONS




# CASE STUDY: Heat Metering for a Community Church in Orkney

**Sector:** Religious Organisation
**Location:** Orkney, UK
**Solution Provided:** Sontex Supercal 5 Thermal Energy Meter

## Overview

A community church in Orkney required a reliable heat-metering solution to accurately monitor the thermal energy used within its heating system.

Community buildings such as churches can present a particular energy-management challenge. Large internal spaces, changing occupancy levels and periods of intermittent use can all create significant variations in heating demand, particularly in exposed northern locations where maintaining comfortable indoor temperatures is essential throughout much of the year.

DMS supplied a Sontex Supercal 5 Thermal Energy Meter to provide accurate measurement of heat consumption and give the building operators greater visibility of heating performance.

## Project Requirements

- Accurate measurement of thermal energy consumption.
- Reliable operation within a commercial-sized heating system.
- Suitable for a community building with fluctuating occupancy.
- Improved visibility of heating demand.
- Data to support energy-management and efficiency initiatives.
- A robust metering solution suitable for long-term use.

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## DMS Solution

### Heat Metering – Sontex Supercal 5




DMS supplied a **Sontex Supercal 5 Thermal Energy Meter** for installation within the church heating system.

The Supercal 5 calculates thermal energy consumption by monitoring the volume of heating water passing through the system together with the temperature difference between the flow and return circuits.

This provides an accurate picture of the amount of heat being delivered to the building rather than relying solely on fuel consumption or estimated usage.

For a community facility with changing occupancy patterns, this type of information can be particularly valuable. Heating requirements may differ significantly between regular services, community events, meetings and quieter periods, so accurate heat-metering data can help building managers understand how energy is being used throughout the year.

The Supercal 5 also offers communication options for connection to wider monitoring or Building Management Systems where required, enabling heat-consumption data to be collected and reviewed remotely.

## Results

The installation provided the church with:

- Accurate measurement of thermal energy consumption
- Greater visibility of heating-system performance
- Improved understanding of changing heating demand
- Data to support future energy-efficiency decisions
- The ability to monitor long-term consumption trends
- A reliable metering solution suited to a community building environment

By monitoring the actual heat delivered through the system, the church can build a clearer understanding of its heating requirements and use accurate consumption data to support effective building and energy management.

## Why DMS?

With over 25 years of experience in heat and energy metering, DMS supports community buildings, places of worship, commercial properties and public-sector facilities with reliable metering solutions.

As the **exclusive UK partner for Sontex**, DMS provides access to the complete Sontex thermal-energy metering range alongside expert technical support and product-selection advice.

From individual community buildings to complex commercial heating networks, DMS can help specify the right heat-metering solution for every application.

**Discover the Sontex Supercal range and our complete heat-metering solutions at dmsltd.com or scan the QR code.**

25 YEARS DMS METERING SOLUTIONS

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