DMS METERING SOLUTIONS



CASE STUDY:
Gas Metering & Pressure Regulation for a School Science Laboratory

Sector: Education

Location: United Kingdom

Solution Provided: Honeywell BK Diaphragm Gas Meter & Honeywell J48 Gas Pressure Regulator



Honeywell Technologies

Overview

A secondary school required a reliable gas metering and pressure regulation solution for its science laboratories, where natural gas was used to supply Bunsen burners for practical lessons.

Gas supplies within educational laboratories need to provide consistent performance while also allowing facilities teams to accurately monitor consumption. With multiple Bunsen burners potentially operating simultaneously during lessons, the system also needed to accommodate changing levels of demand.

DMS supplied a **Honeywell BK Diaphragm Gas Meter** alongside a **Honeywell J48 Gas Pressure Regulator**, providing an effective solution for both measuring and controlling the laboratory gas supply.

Project Requirements

- Accurate measurement of gas consumption within the science laboratories.
- Reliable gas pressure regulation.
- Stable downstream supply to multiple Bunsen burners.
- Equipment suitable for an educational environment.
- Reliable performance as gas demand changes during lessons.
- A robust solution suitable for long-term operation.
- Improved visibility of laboratory gas consumption.

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DMS Solution

Gas Metering – Honeywell BK Diaphragm Gas Meter



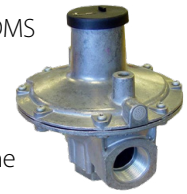
DMS supplied a **Honeywell BK Diaphragm Gas Meter** to accurately measure the volume of gas being consumed within the science laboratory.

The Honeywell BK range uses proven diaphragm gas-metering technology and is designed to provide accurate and stable gas measurement over long periods of operation.

Installing dedicated gas metering for the laboratory allows the school to gain greater visibility of consumption associated specifically with science teaching rather than relying solely on overall site gas usage.

This provides useful information for facilities management, allowing consumption to be monitored over time and helping the school identify unexpected changes in usage.

Gas Pressure Regulation – Honeywell J48



Alongside the gas meter, DMS supplied a **Honeywell J48 Gas Pressure Regulator** to provide controlled downstream pressure to the laboratory gas installation.

The J48 range is designed for low-pressure commercial and industrial gas applications and provides full lock-up capability. It is suitable for natural gas and designed to maintain controlled outlet pressure across varying levels of demand.

This makes it well suited to a laboratory environment where the number of Bunsen burners in operation can change considerably throughout the school day.

When a class begins a practical experiment, several burners may be used simultaneously before demand drops again at the end of the lesson. Reliable pressure regulation helps ensure the downstream gas installation receives a consistent supply throughout these changing operating conditions.

By combining the Honeywell BK meter with the J48 regulator, DMS provided a complete solution for both measuring and regulating the laboratory gas supply.

Results

The installation provided the school with:

- Accurate measurement of laboratory gas consumption
- Reliable regulation of the downstream gas supply
- Stable supply across changing Bunsen burner demand
- Greater visibility of gas usage within the science department
- A robust solution suitable for an educational environment
- Proven Honeywell gas metering and pressure-control technology

The combined metering and regulation solution gives the school's facilities team greater visibility of gas consumption while supporting the reliable operation of the laboratory gas supply during practical science lessons.

Why DMS?

With over 25 years of experience in gas metering and pressure regulation, DMS provides specialist solutions for schools, universities, laboratories, commercial buildings and industrial applications throughout the UK.

As a **Honeywell Diamond Channel Partner**, DMS supplies a comprehensive range of Honeywell gas meters, regulators and associated equipment alongside expert technical support and product-selection advice.

From individual diaphragm meters and regulators to complete commercial gas-metering and pressure-control solutions, DMS can help specify the correct equipment for virtually any application.

Discover our Honeywell BK gas meters, J48 regulators and complete range of gas solutions at dmsltd.com or scan the QR code.

25 YEARS DMS METERING SOLUTIONS

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