

## Commissioning hydronic Systems with Ultra-Low Flow PICVs

CPD Synopsis

### Introduction

- FloControl & FlowCon background & capabilities

### Learning Objectives

### Why we need to commission hydronic systems

### The anatomy of a PICV and how they work

- Analyse each of the PICV functions
- Review and understand pressure independent control results

### Definition Ultra Low Flow

- BSRIA/CIBSE definition
- The need for Ultra Low Flow rates
- Complications when commissioning Ultra Low Flow rate systems following current guidelines

### Ultra Low Flow applications

- Example of an Ultra Low Flow FCU application
- System components
- PICV Ultra Low Flow capabilities/tolerances
- Metering Station capabilities/tolerances

### Commissioning Ultra Low Flow systems with Ultra Low Flow PICVs

- Current methodology and results
- A proposal for a practical approach to overcome current commissioning challenges without compromising on occupant comfort

### Key Take Aways

**Duration** 45 min. presentation, 15 min. Q&A  
**Presenter** Daniel Frain, Andrew Pender, James Heath

