

DB410 0-10V Output Humidity & Temperature Transmitter for HVAC

0-10V output humidity/temperature transmitter for building energy management and HVAC systems.

Overview

The DABECO DB410 is designed for measuring air relative humidity and temperature in building energy management and HVAC systems, delivering dependable measurement performance with a specified 0-10V signal output. The combination of high accuracy, excellent measurement stability, and reliable operation makes it an ideal choice for applications with the highest requirements. Installation options include duct mount or sensor+probe configurations to adapt to different usage environments and site conditions.

Operating Principle

A humidity and temperature sensing element measures relative humidity and ambient temperature, converting readings to a linear 0-10V analog signal for direct integration into HVAC controllers and building energy management systems.

Key Features

- Linear 0-10V analog output
- Humidity range 0-100% RH; temperature -40 to +120°C
- High accuracy and excellent long-term measurement stability
- Duct mount or sensor+probe installation options
- Reliable operation suited to demanding building automation applications

Benefits

- Simple 0-10V signal integrates directly with common HVAC and BMS controllers
- Stable, accurate readings support precise climate control
- Flexible installation (duct or remote probe) adapts to site conditions
- Consistent performance for applications with the highest measurement requirements

Typical Applications

HVAC Systems, Building Energy Management, Building Automation & BMS Integration, Duct-Mounted Climate Monitoring, Commercial & Industrial Facilities

Technical Specifications

Measurement

Humidity Range	0-100% RH
Humidity Accuracy	±2.0% RH (0-90% RH @ +25°C)
Temperature Range	-40 to +120°C
Temperature Accuracy	±0.2°C (@ +25°C)

Output

Signal	Analog 0-10V
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Performance

Response Time (Humidity)	≤8s
Response Time (Temperature)	>2s

Power & Display

Supply	9-36 VDC
Consumption	Lowest 1.2 W
Display	Without

