SIEMENS QFM21

Product Data Sheet

QFM2160

Duct Humidity and Temperature Sensor

SUPPLY VOLTAGE	AC SUPPLY FREQUENCY	HUMIDITY MEASURING RANGE	HUMIDITY OPERATING RANGE
24 V AC ±20% or 13.5–35 V DC	**50/60 Hz**	**0–100% RH**	**0–95% RH, noncondensing**

Siemens QFM2160 is the Duct Humidity and Temperature Sensor for Siemens QFM21. The QFM2160 measures relative humidity and temperature in ventilation ducts.

01 TECHNICAL DATA

Supply voltage	24 V AC ±20% or 13.5–35 V DC
AC supply frequency	50/60 Hz
Humidity measuring range	0–100% RH
Humidity operating range	0–95% RH, noncondensing
Humidity accuracy at 23 °C	±5% RH across the operating range
Typical humidity accuracy at 23 °C	±3% RH at 30–70% RH
Maximum air velocity	20 m/s
Humidity response time	<20 s under specified conditions
Default temperature range	0–50 °C
Alternative temperature ranges	–35 to +35 °C or –40 to +70 °C

02 ADDITIONAL PRODUCT DATA

Output signals	0–5 V, 0–10 V or 4–20 mA
Protection rating	IP54 when installed
Voltage-mode consumption	<1.7 VA
Current-mode consumption	<2.5 VA

03 PRODUCT FUNCTION

Supply voltage is specified as 24 V AC ±20% or 13.5–35 V DC. The published data also lists 50/60 Hz for ac supply frequency and 0–100% RH for humidity measuring range.

04 SYSTEM COMPATIBILITY

Set the temperature range and output mode to match the controller inputs, then wire the sensor according to the QFM21 connection diagram. Compare the project settings with the corresponding product ratings.

05 REFERENCE

Siemens CE1N1864en, QFM21 duct sensors

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