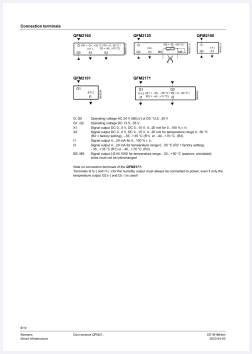
FIELD INSTALLATION QUICK GUIDE

Installation Instructions

QFM2160

Duct Humidity and Temperature Sensor



PRODUCT	QFM2160
FAMILY	Siemens QFM21
FUNCTION	Duct Humidity and Temperature Sensor
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from Siemens documentation. This guide supplements the complete manufacturer manual and site procedure.

01 CONFIRM THE ORDERED CONFIGURATION

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

02 PREPARATION AND CONNECTION

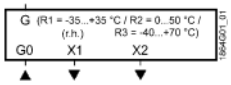
- Confirm the complete QFM2160 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

03

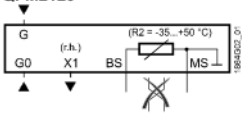
OFFICIAL INSTALLATION REFERENCE

Connection terminals

QFM2160



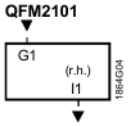
QFM2120



QFM2100



QFM2101



QFM2171



G, G0	Operating voltage AC 24 V (SELV) or DC 13.5...35 V
G1, G2	Operating voltage DC 13.5...35 V
X1	Signal output DC 0...5 V, DC 0...10 V, 4...20 mA for 0...100 % r. h.
X2	Signal output DC 0...5 V, DC 0...10 V, 4...20 mA for temperature range 0...50 °C (R2 = factory setting), –35...+35 °C (R1) or –40...+70 °C (R3)
I1	Signal output 4…20 mA for 0...100 % r. h.
I2	Signal output 4…20 mA for temperature range 0...50 °C (R2 = factory setting), –35...+35 °C (R1) or –40...+70 °C (R3)
BS, MS	Signal output LG-Ni 1000 for temperature range –35...+50 °C (passive, simulated); wires must not be interchanged

*Note on connection terminals of the **QFM2171**:*
Terminals G1(+) and I1(–) for the humidity output must always be connected to power, even if only the temperature output G2(+) and I2(–) is used!

Official manufacturer page reproduced at its original aspect ratio.

04 COMMISSIONING CHECKS

01	Confirm product identity and mechanical seating.
02	Verify the documented supply before energising.
03	Inspect polarity, shielding and protective-earth connections.
04	Restore power in the approved sequence and observe status indications.
05	Test each connected input, output or communication path.
06	Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	Siemens CE1N1864en, QFM21 duct sensors
Product record	QFM2160
Manufacturer	Siemens
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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