



## PRESS RELEASE

For Immediate Release

# QuadraTherm® 640i/780i Air Flow Meters Now With Full Suite of Global Agency Approvals-cFMus, ATEX and IECEx

*Hazardous-Environment Flowmeters for Facilities Management, Chemical Processing, Oil & Gas, WasteWater, and Natural Gas Measurement*

**MONTEREY, CA** — [Sierra Instruments](#), a leading global mass flow meter manufacturer, is pleased to announce its evolutionary [QuadraTherm® 640i/780i air flow meters](#) have received global approvals for the following standards of safe operation in potentially hazardous environments: cFMus (USA and Canada), ATEX (European Union) and IECEx (International). This signifies that the QuadraTherm is certified as flame-proof and protected from dust ignition sources and meets all design criteria for electrically-powered flow meters used in areas where combustible gases may be present.

The IECEx and ATEX certification programs ensure explosion-proof and hazardous area compliance in the European Union and international destinations. The cFMus certification program ensures explosion-proof and hazardous area compliance in the United States and Canada. With approvals, QuadraTherm is approved for applications in hazardous plant areas like facilities management, chemical processing, oil & gas, wastewater, and natural gas throughout the European Union and international communities.

“We designed and tested the QuadraTherm air flow meter for safe operation in heavy industrial applications. The global approvals are a recognition that years of hard work in design and testing were right on target. Now our customers can use the QuadraTherm in even more heavy industrial application across the globe,” says Scott Rouse, Product Line Director.

The QuadraTherm thermal mass flow meter’s approvals are as follows:

### **cFMus**

Class I, Division 1, Groups B,C, and D  
Process Temperature Range: -40°C to 200°C (-40°F to 392°F)  
T3C Ta = -40°C to 60°C (-40°F to 140°F)  
Type 4x

### **ATEX and IECEx Approvals**

II 2 G Ex d IIC T3 Gb  
II 2 D Ex tb IIIC T200°C Db  
Ta = -20°C to 60°C (-4°F to 140°F)  
Process Temperature Range: -40°C to 200°C (-40°F to 392°F)

With these global approvals, Sierra’s QuadraTherm air flow meter can be used throughout the world where hazardous or explosive environments may be present, expanding the market for our customers.

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The QuadraTherm provides the best accuracy +/- 0.5% of reading above 50% of full scale for flow meter air measurement and other gases; built-in flow conditioning (inline version); multivariable outputs; flow ranges up to 60,000 sfpm (305 smps); qTherm<sup>®</sup>, Dial-A-Gas<sup>®</sup>, Dial-A-Pipe<sup>™</sup>; and Hazardous Area approvals. The QuadraTherm is available in two models: the 640i insertion and 780i inline. The QuadraTherm family has a no-drift sensor with lifetime warranty; has multivariable output: mass flow, temperature, pressure (optional); measures all inert and all non-condensing clean gases; flammable gases (methane, propane, hydrogen, and digester gas); repeatability for mass flow rate is +/- 0.15% ; ValidCal<sup>™</sup> Diagnostics to validate calibration in the field; and gas accuracy is +/- 1°C (1.8°F).

Learn more about the [QuadraTherm](#).

View [approval certificates](#).

## ABOUT SIERRA

A global leader in flow measurement and control for over 40 years, Sierra instruments designs and manufactures high performance flow instrumentation for gas, liquid and steam applications commonly found in the pharmaceutical, scientific research, health, energy and semi-conductor industries. With over 150 offices in 50 countries, Sierra is uniquely positioned to provide their innovative products and lifetime support for the leading companies of today and the growth enterprises of tomorrow and lifetime support for the leading companies of today and the growth enterprises of tomorrow.

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