

# FES-200: Flow Element Simulator

## For FCI Thermal Flow Meters



The FES-200 Flow Element Simulator is a portable resistance substitution instrument specifically designed for use with FCI thermal mass flow meters. It is designed to replace bulky, delicate and expensive decade boxes. FES-200 is used to validate calibration and troubleshoot the electronics of FCI thermal flow meters. All FCI thermal flow meters are provided with a calibration sheet that includes a table of its specific differential resistance (Delta R) values. The FES-200 provides an easy to use and low cost solution to perform periodic Delta R comparison checks in the field or on the bench to ensure the flow meter's electronics are operating within specification. FES-200 is compact, rugged and requires no power. The mating cables provide a fast, fool-proof connection between the FES-200 and FCI flow meter. The overall result is significant savings in technicians' time and equipment expense.

The FES-200 is compatible with the FCI flow meters listed in the mating cables list. Ordering is easy: order Model FES-200 and one or more of the mating cable assemblies.

### FES-200 Features

- **#1 Service Tool Recommended For FCI Flow Meters**
  - Perform Calibration/Delta R Verification
  - Validate Transmitter/Electronics
  - Check Heater Current
- **Eliminate Expensive Decade Boxes**
- **Completely Portable, No External Power or Batteries Required**
- **Small, Rugged, Lightweight**
- **0.1% Precision**
- **Easy To Use, Saves on Technician's Time**
- **Avoid Unnecessary Factory Service Returns**
- **Cable Assemblies Eliminate Wiring Errors**
- **Replaces All FCI Model FC81 Calibrators**

### Ordering Guide *Order FES-200 and one or more interface cables*

Part #	Description
FES-200	<b>Flow Element Simulator</b>
	<u>Interface Cable Assemblies</u>
022610-01	For Model LT81A
022610-02	For Model LT81HT <i>High temperature version, 850 °F [454 °C]</i>
022610-03	For Model MT86
022610-04	For Model MT86 <i>High temperature version, 850 °F [454 °C]</i>
022610-05	For Model GF90
022610-06	For Model GF90 <i>High temperature version, 850 °F [454 °C]</i>
022610-07	For Model MT91
022610-08	For Model MT91 <i>High temperature version, 850 °F [454 °C]</i>
022610-09	For ST98 Series <i>All models</i>

#### FCI World Headquarters

1755 La Costa Meadows Drive | San Marcos, California 92078 USA | Phone: 760-744-6950 Toll Free (US): 800-854-1993 Fax: 760-736-6250

#### FCI Europe

Persephonestraat 3-01 | 5047 TT Tilburg, The Netherlands | Phone: 31-13-5159989 Fax: 31-13-5799036

#### FCI Measurement and Control Technology (Beijing) Co., LTD | [www.fluidcomponents.cn](http://www.fluidcomponents.cn)

Room 107, Xianfeng Building II, No.7 Kaituo Road, Shangdi IT Industry Base, Haidian District | Beijing 100085, P. R. China  
Phone: 86-10-82782381 Fax: 86-10-58851152