

## CFT50 Transmitter

# Digital Coriolis Mass Flow Transmitter



### Description

The CFT50 digital Coriolis mass flow transmitter introduces a new product family based on patented dual digital signal processing technology.

With conventional Coriolis meters, even small bubbles of air entrained in the process can seriously interrupt or even stall measurement. But when paired with any Foxboro bent- or straight-tube mass flowmeter, this innovative transmitter digitally controls the flowtube during two-phase flow (gas/liquid). One system controls the meter's drive sequence to ensure uninterrupted liquid flow; the other processes the measurement.

Result: no flow interruption or stalling, plus improved precision for the most demanding applications. This transmitter even allows the flowmeter to start and stop batching with flowtubes empty of liquid.

Like all Foxboro transmitters, the CFT50 offers multiple analog outputs, two-line displays, HART communications, multi-measurement, and enclosures to meet any area classifications. Its user-friendly, menu-driven design allows easy configuration for flow signals, analog/pulse outputs, and display units. And its open architecture enables software flash upgrades in the field.

### Features/Benefits

- Precise mass, density, and temperature measurement
- Accurate two-phase flow measurement with no interruption or stalls
- Gas measurements
- Empty-tube startup capability
- HART communications
- Three analog outputs
- Scalable pulse/frequency
- FM, CSA, CE approvals, NEMA 4X and Flameproof
- Four programming keys
- Remote mounting to 1000 ft
- Backwards compatibility
- User-friendly menus
- Open architecture
- Suitability for applications including:
  - Tanker unloading
  - Centrifuge bottoms
  - Ethylene oxide
  - Sanitary batching
  - Pharmaceuticals batching
  - Food, dairy, beverage

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