

FLOW METERS • ULTRASONIC

IIT-200F Fixed Separated Ultrasonic Flowmeter

II-FM-002

Model TUF-2000SW • TUF-2000SS • TUF-2000SD

Transit-time ultrasonic



Transit-time flow and thermal energy measurement from DN15 to DN6000, clamp-on, insertion or inline.

ENQUIRIES

info@indianainstrutech.com

+91 75033 02545

+91 92893 62447

ISSUED

24 October 2026

IIT-200F Fixed Separated Ultrasonic Flowmeter

Indiana catalogue ID **II-FM-002** Manufacturer model **TUF-2000SW • TUF-2000SS • TUF-2000SD** Flow Meters

Transit-time flow and thermal energy measurement from DN15 to DN6000, clamp-on, insertion or inline.

PIPE SIZES	ACCURACY	INTERFACE
DN15 – DN6000	±1.0% of reading	4–20 mA • RS485

01 Overview

A fixed separated transit-time ultrasonic flowmeter for continuous inline measurement. The convertor installs indoors or in an instrument cabinet while the transducers measure non-invasively or invasively across pipe sizes from DN15 to DN6000. Optional Pt100 transducers add real-time thermal energy and heat calculation.

02 Views



PRIMARY VIEW IIT-200F wall-mounted convertor with keypad and two-line display
Product photograph



ALTERNATE VIEW Clamp-on ultrasonic transducers mounted on a pipe
Product photograph



ALTERNATE VIEW Insertion ultrasonic transducers
Product photograph



ALTERNATE VIEW Inline pipe-section ultrasonic flow sensor
Product photograph

03 Principal data

MEASUREMENT

Operating principle	Transit-time ultrasonic flowmeter with multi-pulse digital processing technology
Accuracy	±1.0% of reading
Repeatability	±0.2%
Velocity	0 to ±7 m/s
Pipe diameter	DN15 mm to DN6000 mm
Turbidity	≤10,000 ppm with minimal bubble content

The full set of stated values, variants and open points is in the specification document for this product.

04 Operating principle

1. 01 Transit-time ultrasonic measurement using low-voltage multi-pulse digital signal processing, which improves measurement accuracy, operational stability and field longevity.
2. 02 A dual-balance signal differential receiver and driver circuit isolates external noise from frequency converters, TV towers and high-voltage power lines.
3. 03 With Pt100 transducers on supply and return, the convertor computes heat as $Q = V \times (T1 - T2) \times K$ for HVAC and industrial utility monitoring.

05 Applications and industries

APPLICATIONS

- Potable, hot, chilled, city and sea water
- Raw sewage and plant effluent
- Chemical liquids including alcohol and solvents
- Oil products — crude, diesel, fuel, lubricating oil
- Beverages and ultra-pure fluids
- HVAC and industrial utility heat metering

INDUSTRIES

Water utilities

HVAC and building services

Power generation

Chemical

Food and beverage

TO QUOTE THIS WE NEED

- Pipe size, material and wall thickness
- Lining material and condition, including scaling
- Liquid, its temperature and expected velocity
- Available straight run upstream and downstream
- Installation method — clamp-on, insertion or inline
- Heat metering required, and which Pt100 type
- Convertor mounting and hazardous-area requirement
- Signal cable length and output required

TELEPHONE

+91 75033 02545
+91 92893 62447

EMAIL

info@indianainstrutech.com

QUOTATION

List the product, ID and quantity; add process conditions. We reply with a quotation.

INDIANA INSTRUTECH · IIT-200F fixed separated ultrasonic flowmeter — catalogue Figures are reproduced from the source documentation; where a source states two different values both are shown. Nothing on this sheet is a certification, and no hazardous-area approval is implied unless a certificate is supplied with the quotation. INDIANA SALES (INDIANA INSTRUTECH) · info@indianainstrutech.com · issued 24 October 2026.