

## TURBINE FLOWMETER

### INTRODUCTION

**FITZER** Turbine flow transmitter specially used for various industrial applications. The flowing media engages a vaned rotor causing it to rotate at an angular velocity proportional to flow rate. The pick-up coil senses the spinning motion of the rotor inside the pipe & convert it into a pulsating electrical signal. Summation of the pulsation electrical signals is directly related to the total flow. The frequency is linearly proportional to flow rate which is converted to electrical signal 4-20mA.

### GENERAL SPECIFICATIONS

<b>Materials of Construction</b>	: Body, Support & Flange - S S 304 / S.S. 316
<b>Rotor</b>	: SS 410 with Teflon coating
<b>Shaft</b>	: Tungsten Carbide
<b>Process Connection</b>	: Flanged / Threaded / Tr-clover
<b>Mounting</b>	: In-line (Horizontal OR Vertical)
<b>Line Size</b>	: 15 NB to 150 NB
<b>Pick up Type</b>	: Magnetic sensor
<b>Power Supply</b>	: Loop powered, 24V DC External
<b>Power Consumption</b>	: < 40mW
<b>Response Time</b>	: < 100 mSec
<b>Temperature Coefficient</b>	: +1- 0.01% per C
<b>Display</b>	: 3 1/2 Digit LCD (Flow Rate)
<b>Type Of Output</b>	: 4 - 20mA DC, 2wire
<b>Calibration Range</b>	: As per requirement (Factory Calibrated)
<b>Accuracy</b>	: ± 1% F.S.
<b>Linearity</b>	: ± 1%
<b>Repeatability</b>	: ± 1%
<b>Turn down ratio</b>	: 10:1 to 100:1
<b>Process Temperature</b>	: 150 C max
<b>Process Pressure</b>	: 30 kg/cm <sup>3</sup> max
<b>Transmitter Enclosure</b>	: Flame proof, IP-65, IIA, IIB CMRI Certified
<b>Viscosity</b>	: 100 CP max

### SAILENT FEATURES

- 2 Wire system
- Simple and cost effective construction
- Provides wide flow range
- Flow rate display 3 1/2 digit LCD
- Easy Maintenance



**FITZER / TFM / 909  
TURBINE FLOWMETER WITH TRANSMITTING**

OUTPUT - 4.20 m A



**FITZER / TFM / 908  
TURBINE FLOWMETER WITH TRANSMITTING**

OUTPUT - 4.20 m A &  
LCD FLOW RATE DISPLAY



**FITZER / TFM / 607  
FLOW INDICATOR TOTALISER**