



# SFT 881

## Turbine Preamp with Rate Alarm



The SFT 881 is an inexpensive interface between the low-level pulses produced by a turbine and the higher level pulses required by a standard digital input. This allows the SFT 881 to be connected to many different totalization devices from dedicated flow totalizers up to standard RTU and PLC inputs. The SFT 881 is designed with a user programmable K factor to allow the input signal to be divided into more useable volume measures. This allows for standard digital accumulators to more easily act as a flow totalizer.

The wide input power range, low current consumption, K factor, and explosion proof enclosure combine to make the SFT 881 a highly versatile and economical solution to turbine interface problems.

- **Accepts and amplifies** raw turbine pulses from turbine
- **Turbine Preamp** – Drives signal cables up to 1500 feet
- **Wide** temperature range
- **Easy** to enter 'K' factor
- **Operates** as a high or low rate alarm
- **Easy installation**
- **Ideal for long distances** between meter and totalizer, PLC, or RTU

### applications

- Oil
- Gas
- Chemical
- Agricultural
- Industrial
- Food & Beverage
- Water and Wastewater
- Transport
- Pulp and Paper
- Mining



is now **Titan Logix Corp.**, providing instrumentation solutions for: level and flow, transport, burner controls, communication, and drilling



# SFT 881 features



*The SFT 881 accepts and amplifies turbine pulses. The pulses can then be divided by 'K' to output pulses that represent standard units of volume.*

- CSA approved Class I, Div 1, Groups B, C, D, Explosion Proof (\*also available without explosion proof enclosure)
- Cost of barriers is eliminated if installation is completed to Class I specifications.
- Accepts and amplifies raw pulses from turbine - sizes 3/8" and up
- User friendly programming: easy to enter and simple to program the 'K' factor
- Single, rugged LED digit and seven "numeric position" LEDs display the 'K' factor
- LED indicates pulse activity
- 'K' value is stored in EEPROM and is retained even with loss of power
- On-card microprocessor enables smart operation
- Reliable operation: Built-in watchdog timer and extensive transient protection
- Input sensitivity can easily be set from 20mV to 1 V
- Wide temperature range: -40°C to 65°C

#### Power

- 9VDC to 28VDC

#### Current Consumption

- 50mA max

#### Power Fuse

- 100mA resettable PTC

#### Ambient Temperature

- Storage: -60°C to +85°C (-76°F to +185°F)
- Operating: -40°C to +65°C (-40°F to +149°F)

#### Humidity

- 0% to 95% non-condensing without gasket

#### Inputs

- Accepts turbine pulse or digital inputs
- Minimum: 8mVRMS @ 0.1 Hz
- Maximum: 30VRMS
- Frequency: 0 Hz to 3kHz

#### Outputs

- Isolated contact (N.O. when power removed from system)
- 50mA 300V contact rating
- Output frequency equal to input frequency divided by K factor
- Output pulse width and state set through user programming

#### Program Memory

- Non-volatile EEPROM

#### Weight

- 1.4 kg (3.0 lbs)

#### Displayed Data

- Pulse Activity (i.e. turbine rate)
- LED flash rate reflects turbine rate

#### K Factor

- Single digit with 7-numeric position LEDs

#### Output Pulse Width

- 0.15ms, 25ms, 100ms, 500ms, 1s

#### Relay Output State

- Normally closed, normally open

*Standard kit includes electronic module in explosion proof enclosure.*

## locations

#### Head Office

4130 – 93 Street  
Edmonton, Alberta, Canada  
T6E 5P5  
P (780) 462-4085  
F (780) 450-8369

#### Calgary Sales Office

Box 306, #440 10816  
Macleod Trail S.  
Calgary, Alberta, Canada  
T2J 5N8  
P (403) 251-5797  
F (403) 251-2480

#### Saskatchewan Branch

Box 460, 103 Cenaiko Street  
Lampman, Saskatchewan, Canada  
S0C 1N0  
P (306) 487-2883  
F (306) 487-2889

find us online at [www.titanlogix.com](http://www.titanlogix.com)

email us at [sales@titanlogix.com](mailto:sales@titanlogix.com) or call toll free at 1-877-462-4085

©2005 Titan Logix Corp.

Made in Canada by Titan Logix Corp.

Represented by:

