

TW-FFA Flow Amplifier.

Paddle wheel, mV ac or Vdc
frequency input amplified
to square wave voltage output.

Features.

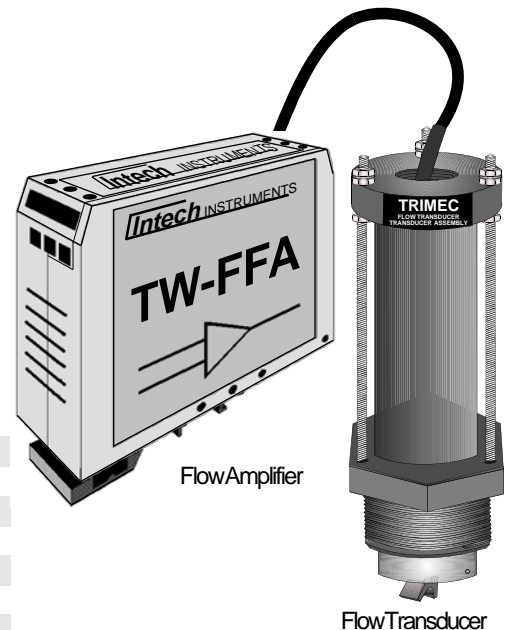
- High Input Sensitivity.
- Compact DIN Rail Mount.
- AC mV or Vdc Frequency Input.
 - Paddle Wheel
 - Transducers
- Cost Effective.
- Easy to Install.
- Reverse Polarity Protection.

Description.

The TW-FFA Flow Amplifier was designed and manufactured specifically for use with flow transducers (or other ac/dc waveforms) to provide a stable and amplified output for further processing. The input voltage signal from a flow transducer is amplified to a square wave output. Typical applications include flow totalisation and rate of fluids in pipe sizes ranging from 1/2" to 96" diameter.

Specifications.

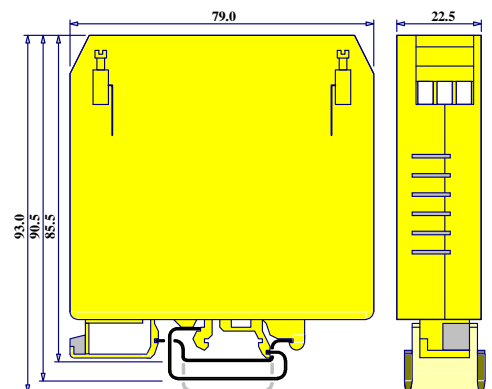
Paddle Wheel or AC mV Input.	-Minimum 10mVpp.
	-Maximum 30Vpp.
DC Frequency Input	-Threshold 2.5Vdc
	-Amplitude 5 to 30Vdc Square Wave.
Output	Square wave.
-Output Frequency	Equals Input Frequency.
-No Load Amplitude	Output = 90% of Supply Voltage.
-Full load Amplitude	Output = 80% of Supply Voltage.
Maximum Frequency	10kHz.
Power Supply	5~32Vdc.
Current Usage (No load)	4mA @ 5Vdc Typical.
	15mA @ 24Vdc Typical.
Maximum Output Current	20mA @ 5Vdc.
	50mA @ 12Vdc.
	200mA @ 24Vdc.
EMC Emissions Compliance	EN 55022-A.
EMC Immunity Compliance	EN 50082-1. $\pm 1\%$ Effect FSO Typical.
Operating Temperature	0~70C.
Storage Temperature	-20~80C.
Operating Humidity	5~85% RH Max. Non-condensing.
Dimensions	L=79, W=22.5, H=85mm.



Flow Amplifier

Flow Transducer

Dimensions.

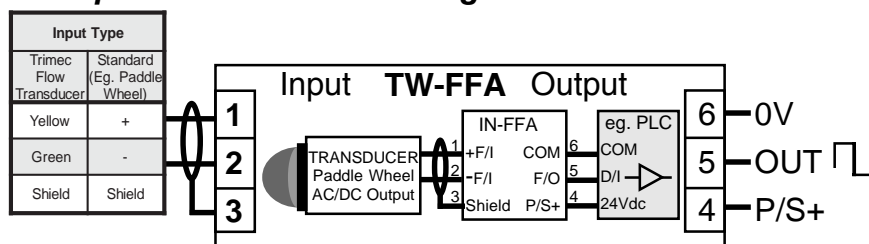


All power and signals must be de-energised before connecting any wiring, or altering any Jumpers or Dip Switches.

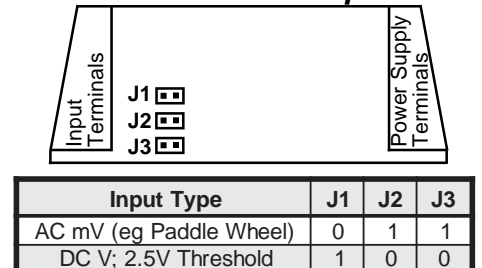
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Warning: These products are not designed for use in, and should not be used for patient connected applications. In any critical installation an independent fail-safe back-up system must always be implemented.

Examples of Connections Diagrams.



Location of Jumpers.



Quality Assurance Programme.

The modern technology and strict procedures of the ISO9001 Quality Assurance Programme applied during design, development, production and final inspection grant long term reliability of the instrument.

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