TKM SERIES Paddle Wheel Flow Meter



truflo®



**https://www.grc.nasa.gov/www/k-12/airplane/shaped.html

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General

Operating Range	0.3 to 33 ft/s	0.1 to 10 m/s
Pipe Size Range	½ to 4"	DN15 to DN100
Linearity	±0.5% of F.S @ 25°C 77°F	
Repeatability	±0.5% of F.S @ 25°C 77°F	

Wetted Materials

Sensor Body	PVC PP Pigmented PVDF Natural
O-Rings	FKM EPDM* FFKM*
Rotor Pin Bushings	Zirconium Ceramic ZrO ₂
Paddle Rotor	ETFE Tefzel [®]
	Optional

Electrical

Frequency	49 Hz per m/s nominal 15 Hz per ft/s nominal	
Supply Voltage	5 to 24 VDC ±10% regulated	
Supply Current	<1.5 mA @ 3.3 to 6 VDC	<20 mA @ 6 to 24 VDC

Max. Temperature/Pressure Rating - Standard and Integral Sensor | Non-Shock

PVC	180 psi @ 68°F	12.5 bar @ 20°C
	40 psi @ 140°F	2.7 bar @ 60°C
PP	180 psi @ 68°F	12.5 bar @ 20°C
	40 psi @ 190°F	2.7 bar @ 88°C
PVDF	200 psi @ 68°F	14 bar @ 20°C
	40 psi @ 240°F	2.7 bar @ 115°C

Operating Temperature

PVC	32°F to 140°F	0°C to 60°C
PP	-4°F to 190°F	-20°C to 88°C
PVDF	-40°F to 240°F	-40°C to 115°C

Outputs

TKP Series Frequency Pulse - Flow Frequency Pulse - Total RS-485 Option	
TKM Series 4-20mA + Frequency Pulse - Flow Frequency Pulse - Total	

See Temperature and Pressure Graphs for more information

Temperature | Pressure Graphs | Non-Shock

Note: The Pressure/Temperature graphs are specifically for the Truflo[®] Flow Sensors. during system design the specifications of all components must be considered.



