

- Up to 24" Pipe Size
- Zirconium Ceramic Rotor | Bearings
- Accuracy $\pm 0.5\%$ of Full Scale
- Retrofits Into Signet® Type Fittings



On Paddle Assembly*

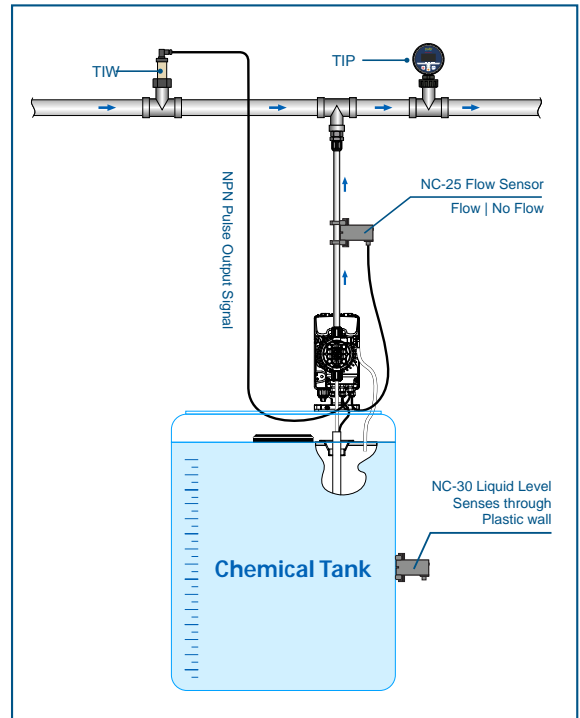


PVC

PP

PVDF

SERIES : TIP
CONNECTION : 1 1/4" Thread



- ### FEATURES
- Large LED Display from Green to Red | Alarm Status
 - High Accuracy | ± 0.5 of Full Scale
 - Pipe Size 1/2 - 24"
 - Flow Rate + Totalizer | Resettable
 - Flow Velocity Range | 0.33 to 33 ft/s | 0.1 to 10 m/s
 - Eprom Memory | Totalizer Value Will Not Be Lost
 - NEMA 4X | IP65 Protection
 - Bright Led Display Flow Units | LPM | GPM | M3 | Ton
 - Dual Output 7 Amp Relays
 - Pulse Output Standard
 - Heavy Duty Industrial Design
 - Corrosion Resistant All Plastic Wetted Parts | PVDF | PP Body-Zirconium Ceramic Rotor | TEFZEL® Paddle
 - Simple Installation | Retrofits into Signet® Type Fitting

SPECIFICATIONS

Operating Voltage	10 ~ 30VDC
Current Consumption	60mA max.
Control Output (LPM)	NPN (150mA max.)
Control Output (FTM)	NPN (150mA max.)
Communication	Modbus
Output	NPN or PNP Pulse Output
Flow Total Meter (FTM)	0 ~ 999999 (6 digits)
Flow Rate Meter (LPM)	0.0 ~ 999.9 LPM (4 digits)
Fluid	Water or Chemical fluid
Accuracy	$\pm 0.5\%$ of F.S. @ 25°C
Response frequency	5K Hz
Flow velocity	10 m s max.
Low Cut	0.3 m s min.
Material of Construction	Paddle ETFE Tefzel® Rotor Pin Zirconium Ceramic Bushings Zirconium Ceramic
O-ring Material	FKM EPDM
Operating Temperature	PVC < 60°C PP < 80°C PF < 100°C
Protection Class	IP-65
Approval	CE RoHS

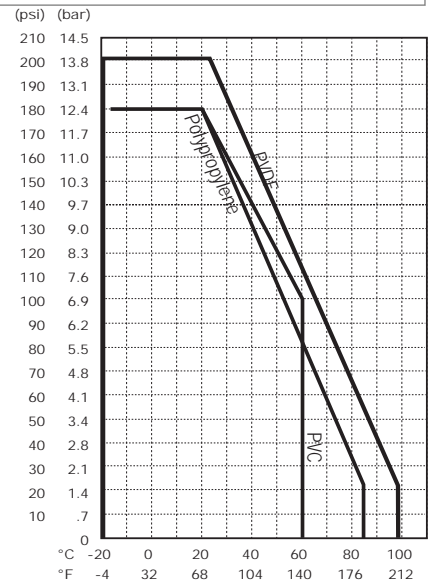
Specifications

General		
Operating Range	0.1 - 10 m/s	0.3 - 33.3 ft/s
Pipe Size Range	DN15 - DN600	½ - 24 in.
PVC	DN15 - DN600	½ - 24 in.
Linearity	±0.5% of max. range @ 68°F 20°C	
Repeatability	±0.5% of max. range @ 68°F 20°C	
Min. Reynolds Number Required	4500	
Wetted Materials		
Sensor Body	PVC Dark Gray PP Natural PVDF Natural	
O-rings	FKM EPDM	
Rotor Pin Bushings	Zirconium Ceramic Ceramic	
Rotor	ETFE TEFZEL®	
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		
PVC	13.7 bar @ 20 °C	200 psi @ 68 °F
	2.0 bar @ 60 °C	30 psi @ 185°F
PP	13.7 bar @ 20 °C	200 psi @ 68 °F
	2.0 bar @ 85 °C	30 psi @ 185 °F
PVDF	13.7 bar @ 20 °C	200 psi @ 68 °F
	7.5 bar @ 60 °C	108 psi @ 140 °F
Operating Temperature		
PVC	0°C - 60°C	32°F - 140°F
PP	-20°C - 100°C	-5°F - 185°F
PVDF	-40°C - 100°C	-40°F - 212°F
Shipping Weight		
TIP-S-X	0.46 kg	1.00 lb
TIP-L-1	0.48 kg	1.05 lb

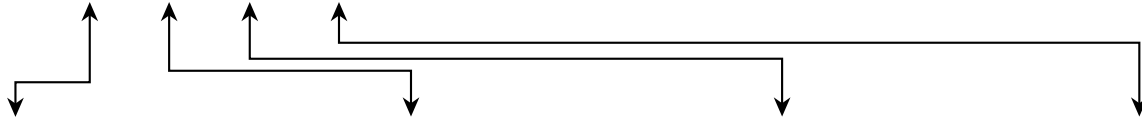
Temperature | Pressure Graphs

Note:

The pressure/temperature graphs are specifically for the Truflo Paddle Wheel Flow Meter. Please ensure the flow sensor meets or exceeds this design considerations. In addition please ensure that materials of construction of the flow meter are suitable for the chemical process.

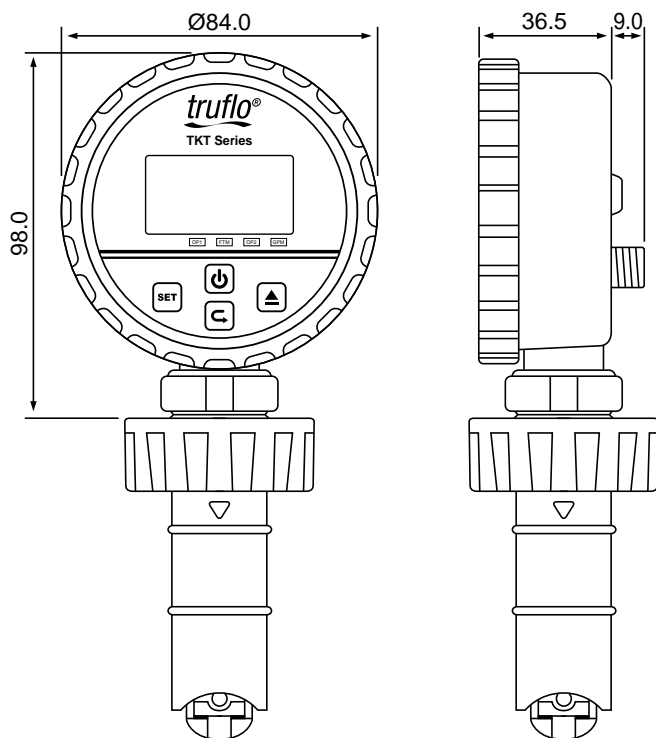


TIP - PF - S - RS - 2m



Material of Inserting Tube	Length of Inserting Tube	Function Option	Connection Method
PVC = PVC PP = PP PF = PVDF	S = for (1"~ 4") L = for (6"~ 24")	RS = with MODBUS RTU Pulse Output (STD)	2m = Lead wire 2m M12 Quick Disconnect (STD)

Dimension (unit : mm)



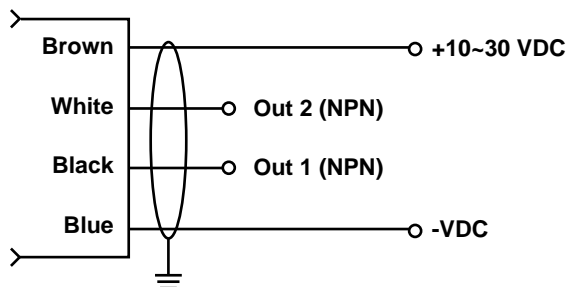
Wiring

Standard	Relay output
1> Brown : +10~30 VDC	1> Brown : +10~30 VDC
2> White : Out 2 (NPN)	2> White : Out 2 (NPN)
3> Blue : -0V	3> Blue : -0V
4> Black : Out 1 (NPN)	4> Black : Out 1 (NPN)
	5> Orange : RS+
	6> Grey : RS -



Wiring Diagram

• Standard Output



• PNP or NPN output with RS-485

