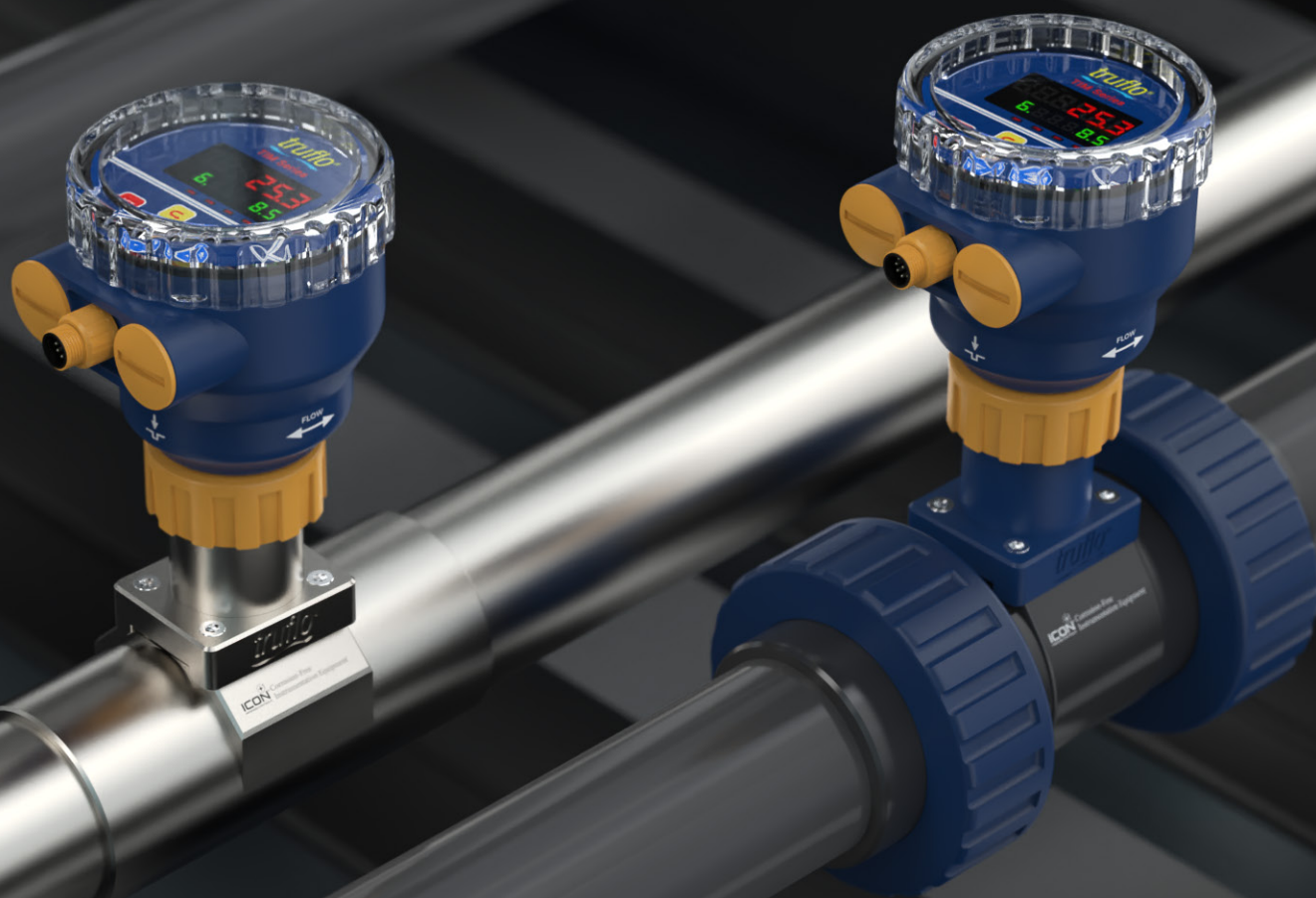


Quick Start Manual



Read the user's manual carefully before starting to use the unit.
Producer reserves the right to implement changes without prior notice.

Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

Safety Information

- De-pressurize and vent system prior to installation or removal
- Confirm chemical compatibility before use
- **DO NOT** exceed maximum temperature or pressure specifications
- **ALWAYS** wear safety goggles or face-shield during installation and/or service
- **DO NOT** alter product construction



Warning | Caution | Danger

Indicates a potential hazard. Failure to follow all warnings may lead to equipment damage, injury, or death.



Hand Tighten Only

Over tightening may permanently damage product threads and lead to failure of the retaining nut.



Note | Technical Notes

Highlights additional information or detailed procedure.



Do Not Use Tools

Use of tool(s) may damage product beyond repair and potentially void product warranty.



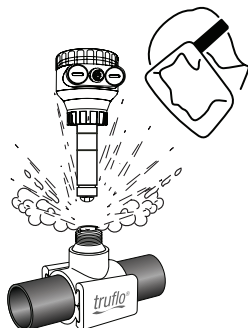
Personal Protective Equipment (PPE)

Always utilize the most appropriate PPE during installation and service of Truflo® products.



Pressurized System Warning

Sensor may be under pressure. Take caution to vent system prior to installation or removal. Failure to do so may result in equipment damage and/or serious injury.



Truflo® — TIM | TI3M Series (V1) Insertion Paddle Wheel Flow Meter Sensor

ICON™ Corrosion-Free
PROCESS CONTROLS Instrumentation Equipment™

Product Description

The TI Series insertion plastic paddle wheel flow meter has been engineered to provide long-term accurate flow measurement in tough industrial applications. The paddle wheel assembly consists of an engineered Tefzel® paddle and micro-polished zirconium ceramic rotor pin and bushings. High performance Tefzel® and Zirconium materials have been selected due to their excellent chemical and wear resistant properties.

Features

- ✓ ½" – 24" Line Sizes
- ✓ Flow Rate | Total
- ✓ Pulse | 4-20mA | Voltage Outputs (Optional)

New ShearPro® Design

- ✓ Contoured Flow Profile
- ✓ Reduced Turbulence = Increased Longevity
- ✓ 78% Less Drag than Old Flat Paddle Design*

*Ref: NASA "Shape Effects on Drag"

Tefzel® Paddle Wheel

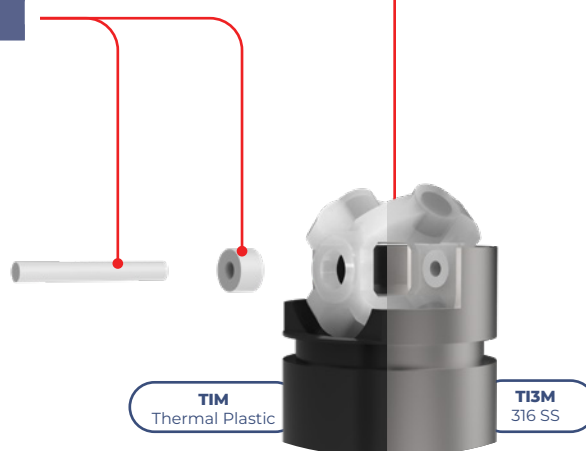
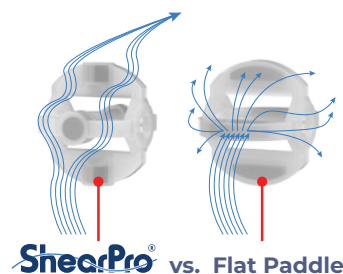
- ✓ Superior Chemical And Wear Resistance vs PVDF

Zirconium Ceramic Rotor | Bushings

- ✓ Up to 15x the Wear Resistance
- ✓ Integral Rotor Bushings Reduce Wear and Fatigue Stress

360° Shielded Rotor Design

- ✓ Eliminates Finger Spread
- ✓ No Lost Paddles



Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

Technical Specifications

| General | | |
|-----------------------------------------------------------------------------|------------------------------------------------------|----------------------------------|
| Operating Range | 0.3 to 33 ft/s | 0.1 to 10 m/s |
| Pipe Size Range | ½ to 24" | DN15 to DN600 |
| 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 (Dark) PP (Pigmented) PVDF (Natural) 316SS | |
| O-Rings | FKM EPDM* FFKM* | |
| Rotor Pin Bushings | Zirconium Ceramic ZrO ₂ | |
| Paddle Rotor | ETFE Tefzel® | |
| Electrical | | |
| Frequency | 49 Hz per m/s nominal | 15 Hz per ft/s nominal |
| Supply Voltage | 10-30 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 40 Psi @ 140°F | 12.5 Bar @ 20°C 2.7 Bar @ 60°F |
| PP | 180 Psi @ 68°F 40 Psi @ 190°F | 12.5 Bar @ 20°C 2.7 Bar @ 88°F |
| PVDF | 200 Psi @ 68°F 40 Psi @ 240°F | 14 Bar @ 20°C 2.7 Bar @ 115°F |
| 316SS | 200 Psi @ 180°F 40 Psi @ 300°F | 14 Bar @ 82°C 2.7 Bar @ 148°F |
| 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 |
| 316SS | -40°F to 300°F | -40°C to 148°C |
| Output | | |
| Pulse 4-20mA Voltage (0-5V)* | | |
| Display | | |
| LED Flow Rate + Flow Totalizer | | |
| Standards and Approvals | | |
| CE RoHS Compliant | | |

See Temperature and Pressure Graphs for more information

* Optional

Model Selection

| PVC PP PVDF | | |
|-----------------|-------------|----------|
| Size | Part Number | Material |
| ½" - 4" | TIM-P-S | PVC |
| 6" - 24" | TIM-P-L | PVC |
| 1" - 4" | TIM-PP-S | PP |
| 6" - 24" | TIM-PP-L | PP |
| 1" - 4" | TIM-PF-S | PVDF |
| 6" - 24" | TIM-PF-L | PVDF |

Add Suffix -
'E' - EPDM Seals

| 316 SS | | |
|----------|-------------|----------|
| Size | Part Number | Material |
| ½" - 4" | TI3M-SS-S | 316 SS |
| 6" - 24" | TI3M-SS-L | 316 SS |

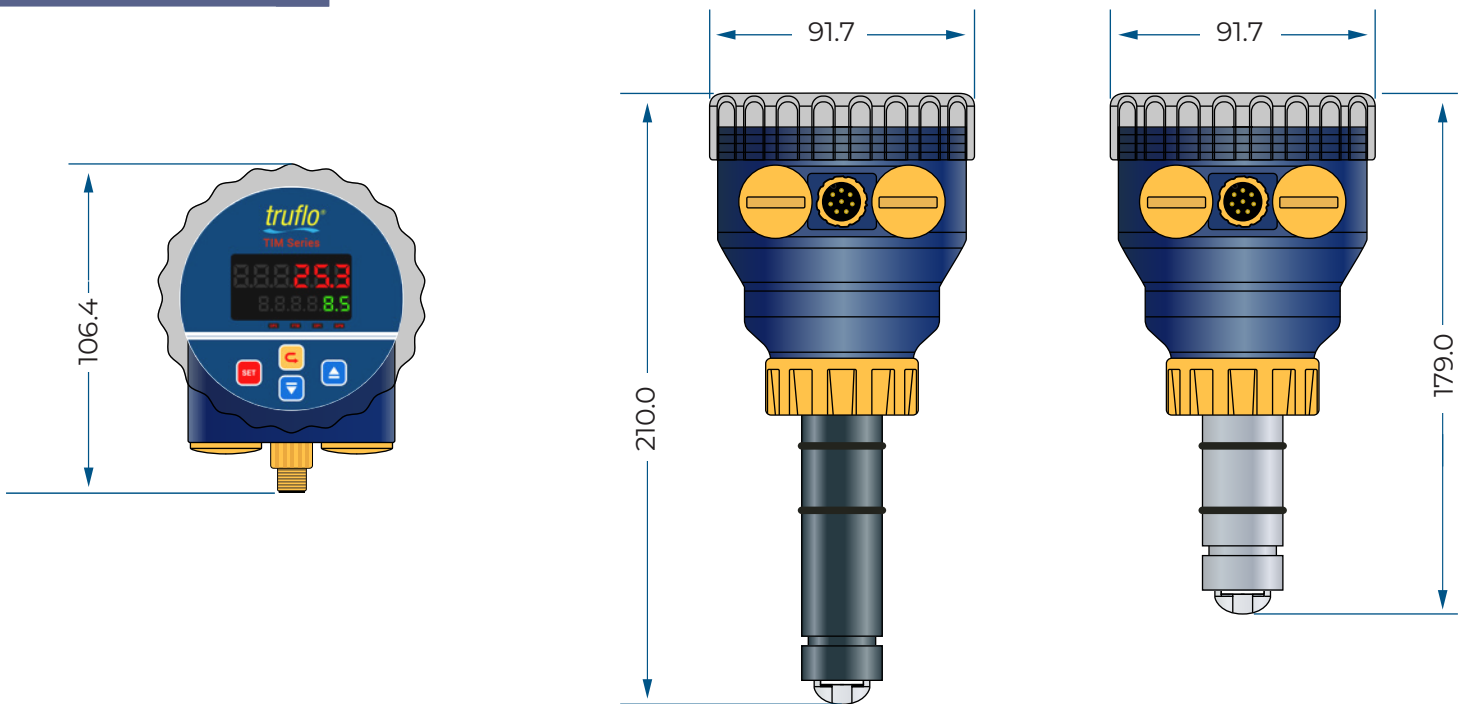
Add Suffix -
'E' - EPDM Seals

Truflo® — TIM | TI3M Series (V1) Insertion Paddle Wheel Flow Meter Sensor

Display Characteristics



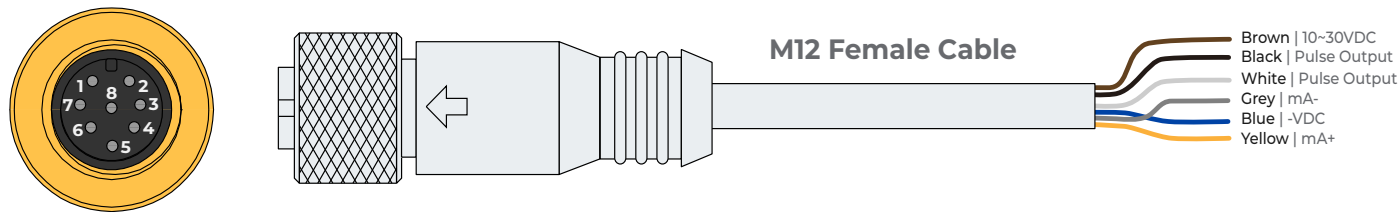
Dimensions (mm)



Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

Wiring Diagram



| Terminal | Description | Color |
|----------|----------------|--------|
| 1 | + 10~30 VDC | Brown |
| 2 | Pulse Output | White |
| 3 | - VDC | Blue |
| 4 | Pulse Output | Black |
| 5 | + 4-20mA or V* | Yellow |
| 6 | - 4-20mA or V* | Grey |

*Optional

Wiring - SSR* (Totalizer)

Set "Con n" in **Pulse Output Control**
(Refer Pulse Control Programmimg, Page 12)

| Wire Color | Description |
|------------|--------------|
| Brown | + 10~30VDC |
| White | Pulse Output |
| Blue | -VDC |

* SSR - Solid State Relay

Wiring - SSR* (Flow Rate)

Set "Con F/E/r/c" in **Pulse Output Control**
(Refer Pulse Control Programmimg, Page 12)

| Wire Color | Description |
|------------|--------------|
| Brown | + 10~30VDC |
| Black | Pulse Output |
| Blue | -VDC |

* SSR - Solid State Relay

Wiring - One Pulse/Gal | Con E

Set "Con E" in **Pulse Output Control**
(Refer Pulse Control Programmimg, Page 12)

| Wire Color | Description |
|------------|--------------------|
| Brown | + 10~30VDC |
| Black | Pulse Output (OP2) |
| Blue | -VDC |

Wiring - To Flow Display | Con F

Set "Con F" in **Pulse Output Control**
(Refer Pulse Control Programmimg, Page 12)

| Wire Color | Description |
|------------|--------------|
| Brown | + 10~30VDC |
| White | Paddle Pulse |
| Blue | -VDC |

Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

Installation

Very Important



- Lubricate O-rings with a viscous lubricant, compatible with the materials of construction.
- Using an alternating | twisting motion, carefully lower the sensor into the fitting. | **Do Not Force** | Fig-3
- Ensure tab | notch are parallel to flow direction | Fig-4



Hand tighten the sensor cap. DO NOT use any tools on the sensor cap or the cap threads or fitting threads may be damaged. | Fig-5

Fig - 1

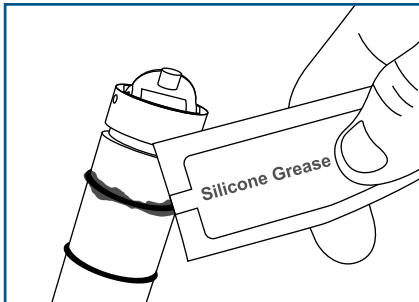
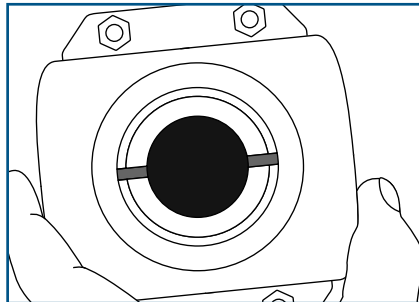
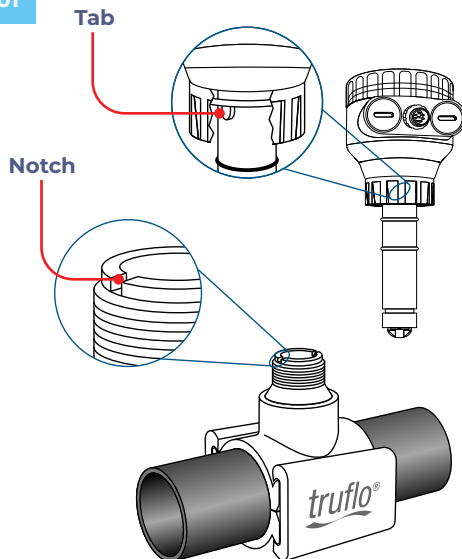


Fig - 2



Correct Sensor Position

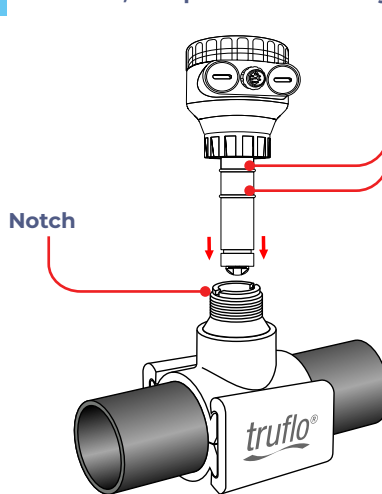
01



Locate the flow meter positioning tab and clamp saddle notch.

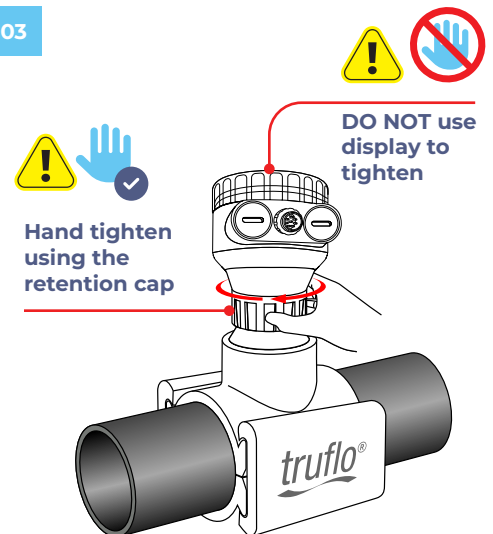
02

VERY IMPORTANT
Lubricate O-rings with a viscous lubricant, compatible with the system



Engage one thread of the sensor cap, then turn the sensor until the alignment tab is seated in the fitting notch. Ensure tab is parallel to flow direction.

03



- Hand tighten the screw cap
- DO NOT use any tools — threads may be damaged
- Ensure meter is firmly in place

Retention Cap

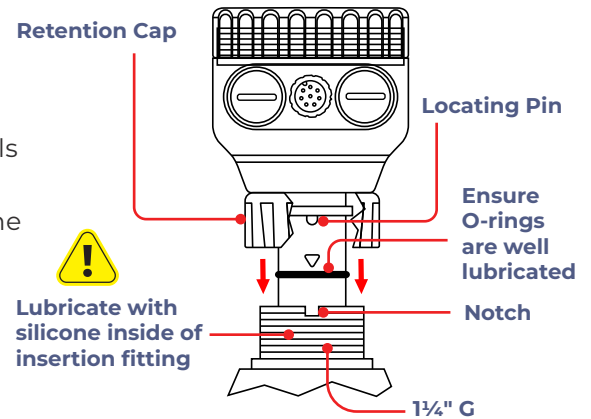


Fig - 3

Retention Cap

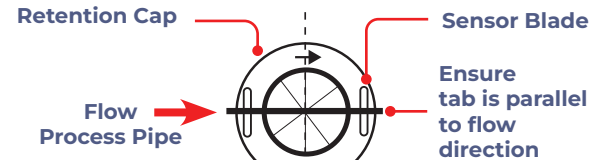
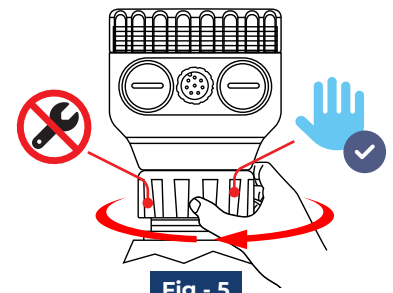


Fig - 4

Top View

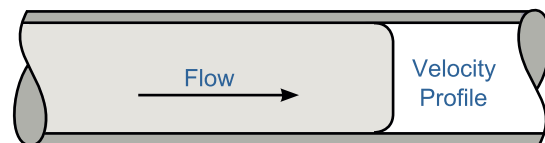


Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

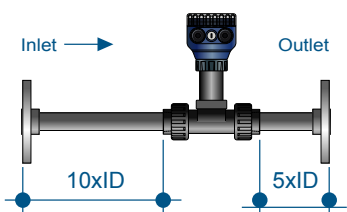
Correct Sensor Position Setup

TI Series flow meters measure liquid media only. There should be no air bubbles and the pipe must always remain full. To ensure accurate flow measurement, the placement of the flow meters needs to adhere to specific parameters. This requires a straight run pipe with a minimum number of pipe diameters distance upstream and downstream of the flow sensor.

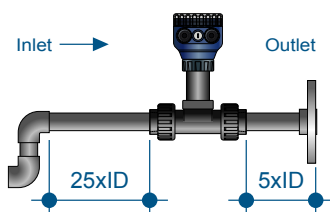


Developed Turbulent Flow

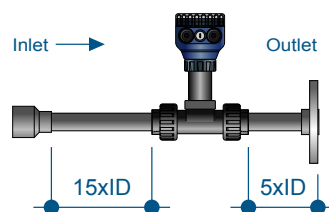
Flange



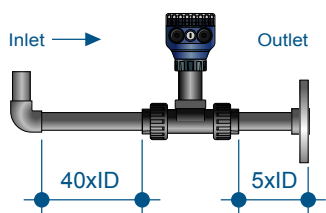
2x 90° Elbow



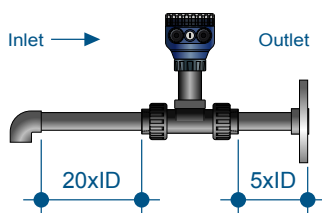
Reducer



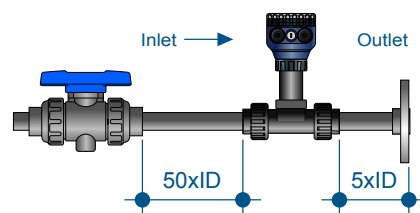
90° Downward Flow



90° Elbow Downward Flow Upward

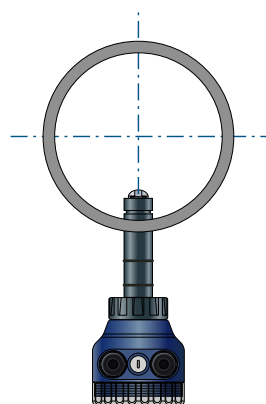


Ball Valve



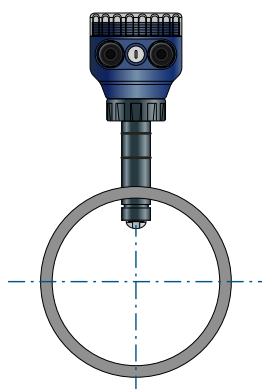
Installation Positions

Figure - 1



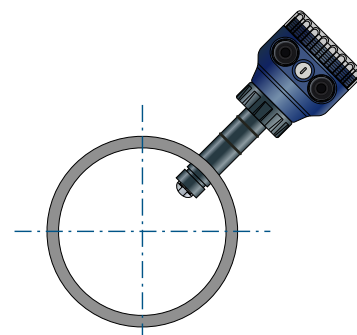
Good if NO SEDIMENT present

Figure - 2



Good if NO AIR BUBBLES present

Figure - 3



Preferred installation if
SEDIMENT* or AIR BUBBLES
may be present

*Maximum % of solids: 10% with particle size not exceeding 0.5mm cross section or length

Truflo® — TIM | TI3M Series (V1) Insertion Paddle Wheel Flow Meter Sensor

Fittings and K-Factor

TEE FITTINGS



| Tee Fitting | | K-Factor | | Sensor Length |
|-------------|-----|----------|--------|---------------|
| IN | DN | LPM | GPM | |
| ½" (V1) | 15 | 156.1 | 593.0 | S |
| ½" (V2) | 15 | 267.6 | 1013.0 | S |
| ¾" | 20 | 160.0 | 604.0 | S |
| 1" | 25 | 108.0 | 408.0 | S |
| 1½" | 40 | 37.0 | 140.0 | S |
| 2" | 50 | 21.6 | 81.7 | S |
| 2½" | 65 | 14.4 | 54.4 | S |
| 3" | 80 | 9.3 | 35.0 | S |
| 4" | 100 | 5.2 | 19.8 | S |

CLAMP-ON SADDLES



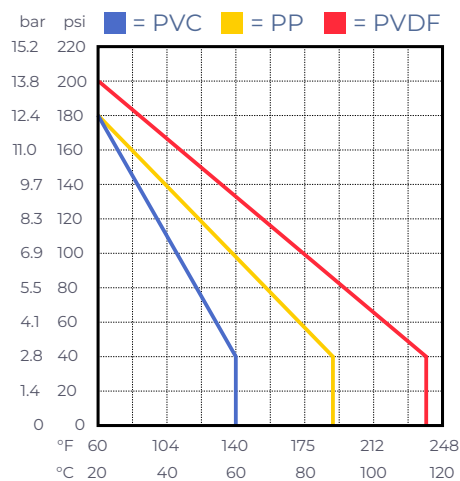
| Clamp Saddles | | K-Factor | | Sensor Length |
|---------------|-----|----------|------|---------------|
| IN | DN | LPM | GPM | |
| 2" | 50 | 21.6 | 81.7 | S |
| 3" | 80 | 9.3 | 35.0 | S |
| 4" | 100 | 5.2 | 19.8 | S |
| 6" | 150 | 2.4 | 9.2 | L |
| 8" | 200 | 1.4 | 5.2 | L |

CPVC SOCKET WELD-ON ADAPTERS



| Weld On Adapter | | K-Factor | | Sensor Length |
|-----------------|------|----------|------|---------------|
| IN | DN | LPM | GPM | |
| 2" | 50 | 14.4 | 54.4 | S |
| 2½" | 65 | 9.3 | 35.5 | S |
| 3" | 80 | 9.3 | 35.0 | S |
| 4" | 100 | 5.2 | 19.8 | S |
| 6" | 150 | 2.4 | 9.2 | L |
| 8" | 200 | 1.4 | 5.2 | L |
| 10" | 250 | 0.91 | 3.4 | L |
| 12" | 300 | 0.65 | 2.5 | L |
| 14" | 400 | 0.5 | 1.8 | L |
| 16" | 500 | 0.4 | 1.4 | L |
| 18" | 600 | 0.3 | 1.1 | L |
| 20" | 800 | 0.23 | 0.9 | L |
| 24" | 1000 | 0.16 | 0.6 | L |

Pressure vs. Temperature



Note: During system design the specifications of all components must be considered. | Non-Shock



*Optional

Min/Max Flow Rates

| Pipe Size (O.D.) | LPM GPM | LPM GPM |
|------------------|--------------|------------------|
| | 0.3m/s min. | 10m/s max |
| ½" DN15 | 3.5 1.0 | 120.0 32.0 |
| ¾" DN20 | 5.0 1.5 | 170.0 45.0 |
| 1" DN25 | 9.0 2.5 | 300.0 79.0 |
| 1 ½" DN40 | 25.0 6.5 | 850.0 225.0 |
| 2" DN50 | 40.0 10.5 | 1350.0 357.0 |
| 2 ½" DN60 | 60.0 16.0 | 1850.0 357.0 |
| 3" DN80 | 90.0 24.0 | 2800.0 739.0 |
| 4" DN100 | 125.0 33.0 | 4350.0 1149.0 |
| 6" DN150 | 230.0 60.0 | 7590.0 1997.0 |
| 8" DN200 | 315.0 82.0 | 10395.0 2735.0 |

Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

Programming



Select/Save/Continue



Move Selection Left







Change Digit Value

| STEPS | DISPLAY | OPERATION |
|------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Home Screen SET + 3 SEC | | Home Screen |
| 2 Lock Settings SET | | Lock Settings Factory Default: Lk = 10 Otherwise meter will enter Lockout Mode* |
| 3 Flow Unit SET | | Flow Unit Factory Default: Ut.1 = Gallon Ut.0 = Liter Ut.2 = Kiloliters |
| 4 K Factor SET | | K Factor Value Enter K Factor value depending on pipe size. Refer to Page 9 for K-Factor Values |
| 5 Filter Damping SET | | Filter Damping Factory Default: FiL = 20 Range : 0 ~ 99 Secs (Filter Damping : Smooth out or "Dampen" the response of the Flow Meter to rapid fluctuations in flow.) |
| 6 Transmitter Range SET 3 SEC | | Transmitter Range 20mA Factory Default: 4mA = 0 Enter 20mA Output Value Note: 20mA = 100** (Max. Flow Rate) |
| 7 Transmitter Span SET | | Transmitter Span Factory Default: SPn = 1.000 Range : 0.000 ~ 9.999 (Span : Difference between Upper Range (UPV) & Lower Range (LRV)) |
| 8 Transmitter Offset SET | | Transmitter Offset Factory Default: oSt = 0.000 Range : 0.000 ~ 9.999 (Offset : Actual Output - Expected Output) |

Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

Totalizer Reset

| STEPS | DISPLAY | OPERATION |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|
| 1 Home Screen  SET +  3 SEC |  | Home Screen |
| 2 Totalizer Reset |  | Totalizer Value will Reset to Zero |

Setting Output Limits (SSR*)













Select/Save/Continue



Move Selection Left



Change Digit Value

| STEPS | DISPLAY | OPERATION |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Home Screen   |  | Home Screen  <div>Current Value (CV) Set Value (SV)</div> |
| 2 Flow Rate Pulse Output (OP1)   |  | Flow Rate Pulse Output (OP1) Limit Enter Flow Rate Pulse Output Value CV ≥ SV : Flow Rate Output (OP1) ON CV < SV : Flow Rate Output (OP1) OFF ■ Refer Page 6 for SSR* Wiring |
| 3 Totalizer Pulse Output (OP2)   |  | Totalizer Pulse Output (OP2) Limit Enter Totalizer Pulse Output Value CV ≥ SV : Totalizer Output (OP2) ON CV < SV : Totalizer Output (OP2) OFF Note: Refer Pulse Control Programming (Pg 12) ■ Refer Page 6 for SSR* Wiring |

*SSR - Solid State Relay

Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

Pulse Control Programming



Select/Save/Continue



Move Selection Left



Change Digit Value

| STEPS | DISPLAY | OPERATION |
|--------------------------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Home Screen SET 3 SEC | | Home Screen |
| 2 Pulse Output Control SET | | Pulse Output Control Con = n : OP2 Manual Reset (When Totalizer = Set Value (SV)) Con = c r : OP2 Auto Reset after (t 1) Secs Con = E : One Pulse/Gal (Default) Con = F : Paddle Pulse → Frequency Max 5 KHz (For TVF) |
| 3 OP2 Auto Reset Time Delay SET | | OP2 Auto Reset Time Delay Factory Default: t 1 = 0.50 Range : 0.000 ~ 9.999 Secs (Displayed only when Con r Con c is selected) Note: OP2 = Totalizer Output |
| 4 Alarm Mode Setting SET | | Alarm Mode Setting Factory Default: ALt = 0 Range: 0 ~ 3 Refer to Alarm Mode Selection |
| 5 Hysterisis SET | | Hysterisis Factory Default: HYS = 1.0 Range: 0.1 ~ 999.9 (Hysterisis is a buffer around the Programmed Set Point) |
| 6 OP1 Power On Time Delay SET | | OP1 Power On Time Delay Factory Default: t2 = 20 Sec Range: 0 ~ 9999 Secs Note: OP1 = Flow Rate Output |

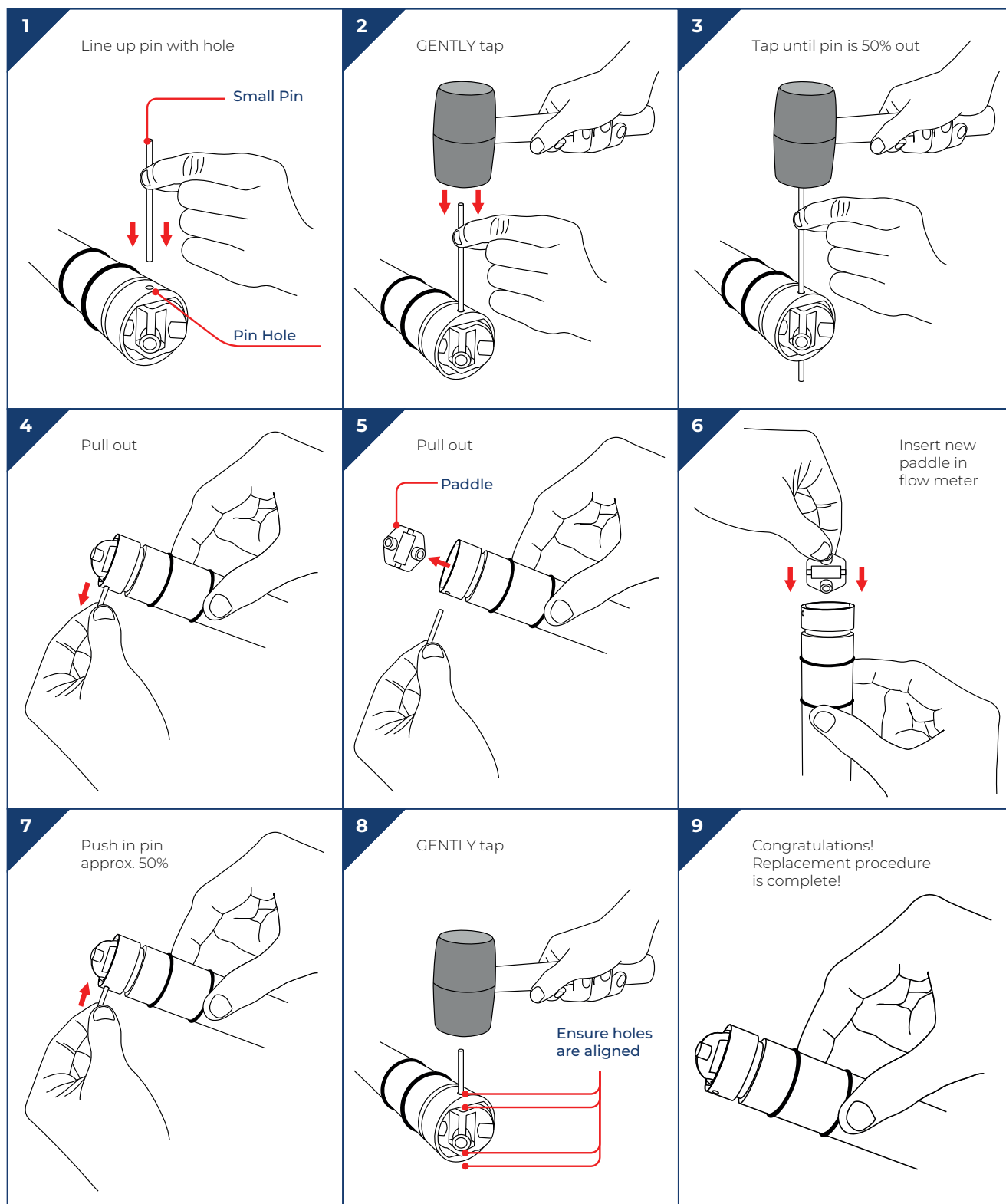
Relay Mode Selection

| ALt No. | Description |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| ALt = 0 | $CV \geq SV \rightarrow \text{Relay ON} \mid CV < [SV - Hys] \rightarrow \text{Relay OFF}$ |
| ALt = 1 | $CV \leq SV \rightarrow \text{Relay ON} \mid CV > [SV + Hys] \rightarrow \text{Relay OFF}$ |
| ALt = 2 | $[SV + Hys] \geq CV \geq [SV - Hys] \rightarrow \text{Relay ON} : CV > [SV + Hys] \text{ or } CV < [SV - Hys] \rightarrow \text{Relay OFF}$ |
| ALt = 3 | $[SV + Hys] \geq CV \geq [SV - Hys] \rightarrow \text{Relay OFF} : CV > [SV + Hys] \text{ or } CV < [SV - Hys] \rightarrow \text{Relay ON}$ |
| Hys = Hysteresis — Acts like a buffer \pm around (OP1) pulse output | |
| CV: Current Value (Flow Rate) SV = Set Value | |

Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor

Rotor Pin | Paddle Replacement



Installation Fittings



SA Clamp-On Saddle Fittings

- PVC Material
- Viton® O-Rings
- Available in Metric DIN
- Will Accept Signet® Type Flow Meter

| PVC | |
|------|-------------|
| Size | Part Number |
| 2" | SA020 |
| 3" | SA030 |
| 4" | SA040 |
| 6" | SA060 |
| 8" | SA080 |



PT | PPT | PFT Installation Fittings

- PVC | PP | PVDF
- Socket End Connections
- Will Accept Signet® Type Flow Meter
- True-Union Design

| | PVDF | PVC | PP |
|--------|-------------|-------------|-------------|
| Size | Part Number | Part Number | Part Number |
| 1/2" | PFT005 | PT005 | PPT005 |
| 3/4" | PFT007 | PT007 | PPT007 |
| 1" | PFT010 | PT010 | PPT010 |
| 1 1/2" | PFT015 | PT015 | PPT015 |
| 2" | PFT020 | PT020 | PPT020 |

Add Suffix -

'E' - EPDM Seals

'T' - NPT End Connectors

'B' - Butt Fused End Connections for PP or PVDF



SAR Clamp-On Saddle Fittings (SDR Pipe)

- PVC Material
- Viton® O-Rings
- Available in Metric DIN
- Will Accept Signet® Type Flow Meter

| PVC | |
|------|-------------|
| Size | Part Number |
| 2" | SAR020 |
| 3" | SAR030 |
| 4" | SAR040 |
| 6" | SAR060 |
| 8" | SAR080 |
| 10" | SAR100 |
| 12" | SAR120 |
| 14" | SAR140 |
| 16" | SAR160 |



CT CPVC Tee Installation Fitting

- 1"-4" Pipe Sizes
- Easy to Install
- Will Accept Signet® Flow Meter

| CPVC | |
|--------|-------------|
| Size | Part Number |
| 1" | CT010 |
| 1 1/2" | CT015 |
| 2" | CT020 |
| 3" | CT030 |
| 4" | CT040 |

Add Suffix -

'E' - EPDM Seals

'T' - NPT End Connectors

'B' - Butt Fused End Connections for PP or PVDF



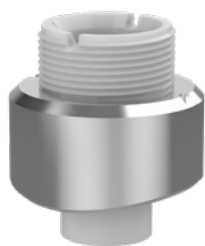
PG Glue-On Adapter

- 2"-24" Pipe Sizes
- Easy to Install
- Will Accept Signet® Flow Meter

| Glue-On Adapter – CPVC | |
|------------------------|-------------|
| Size | Part Number |
| 2" - 4" | PG4 |
| 6" - 24" | PG24 |

Truflo® — TIM | TI3M Series (V1)

Insertion Paddle Wheel Flow Meter Sensor



SWOL Weld-On Adapter

- 2"-12" Pipe Sizes
- 316SS Weld-o-let with PVDF insert
- Easy to Install
- Will Accept Signet® Flow Meter

| Weld-On Adapter - 316 SS | |
|--------------------------|-------------|
| Size | Part Number |
| 3" | SWOL3 |
| 4" | SWOL4 |
| 6" | SWOL6 |
| 8" | SWOL8 |
| 10" | SWOL10 |
| 12" | SWOL12 |



SST 316SS TI3 Series NPT Tee Fittings

- Will Accept Signet® Type Flow Meter

| Threaded Tee Fitting - 316 SS | |
|-------------------------------|-------------|
| Size | Part Number |
| ½" | SST005 |
| ¾" | SST007 |
| 1" | SST010 |
| 1 ½" | SST015 |
| 2" | SST020 |
| 3" | SST030 |
| 4" | SST040 |



SSS 316SS TI3 Series Sanitary Tee Fittings

- Will Accept Signet® Type Flow Meter

| Sanitary Tee Fitting - 316 SS | |
|-------------------------------|-------------|
| Size | Part Number |
| ½" | SSS005 |
| ¾" | SSS007 |
| 1" | SSS010 |
| 1 ½" | SSS015 |
| 2" | SSS020 |
| 3" | SSS030 |
| 4" | SSS040 |



SSF 316SS TI3 Series Flanged Tee Fittings

- Will Accept Signet® Type Flow Meter

| Flanged Tee Fitting - 316 SS | |
|------------------------------|-------------|
| Size | Part Number |
| ½" | SSF005 |
| ¾" | SSF007 |
| 1" | SSF010 |
| 1 ½" | SSF015 |
| 2" | SSF020 |
| 3" | SSF030 |
| 4" | SSF040 |

Warranty, Returns and Limitations

Warranty

Icon Process Controls Ltd warrants to the original purchaser of its products that such products will be free from defects in material and workmanship under normal use and service in accordance with instructions furnished by Icon Process Controls Ltd for a period of one year from the date of sale of such products. Icon Process Controls Ltd obligation under this warranty is solely and exclusively limited to the repair or replacement, at Icon Process Controls Ltd option, of the products or components, which Icon Process Controls Ltd examination determines to its satisfaction to be defective in material or workmanship within the warranty period. Icon Process Controls Ltd must be notified pursuant to the instructions below of any claim under this warranty within thirty (30) days of any claimed lack of conformity of the product. Any product repaired under this warranty will be warranted only for the remainder of the original warranty period. Any product provided as a replacement under this warranty will be warranted for the one year from the date of replacement.

Returns

Products cannot be returned to Icon Process Controls Ltd without prior authorization. To return a product that is thought to be defective, go to www.iconprocon.com, and submit a customer return (MRA) request form and follow the instructions therein. All warranty and non-warranty product returns to Icon Process Controls Ltd must be shipped prepaid and insured. Icon Process Controls Ltd will not be responsible for any products lost or damaged in shipment.

Limitations

This warranty does not apply to products which:

1. are beyond the warranty period or are products for which the original purchaser does not follow the warranty procedures outlined above;
2. have been subjected to electrical, mechanical or chemical damage due to improper, accidental or negligent use;
3. have been modified or altered;
4. anyone other than service personnel authorized by Icon Process Controls Ltd have attempted to repair;
5. have been involved in accidents or natural disasters; or
6. are damaged during return shipment to Icon Process Controls Ltd

Icon Process Controls Ltd reserves the right to unilaterally waive this warranty and dispose of any product returned to Icon Process Controls Ltd where:

1. there is evidence of a potentially hazardous material present with the product;
2. or the product has remained unclaimed at Icon Process Controls Ltd for more than 30 days after Icon Process Controls Ltd has dutifully requested disposition.

This warranty contains the sole express warranty made by Icon Process Controls Ltd in connection with its products. ALL IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. The remedies of repair or replacement as stated above are the exclusive remedies for the breach of this warranty. IN NO EVENT SHALL Icon Process Controls Ltd BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING PERSONAL OR REAL PROPERTY OR FOR INJURY TO ANY PERSON. THIS WARRANTY CONSTITUTES THE FINAL, COMPLETE AND EXCLUSIVE STATEMENT OF WARRANTY TERMS AND NO PERSON IS AUTHORIZED TO MAKE ANY OTHER WARRANTIES OR REPRESENTATIONS ON BEHALF OF Icon Process Controls Ltd. This warranty will be interpreted pursuant to the laws of the province of Ontario, Canada.

If any portion of this warranty is held to be invalid or unenforceable for any reason, such finding will not invalidate any other provision of this warranty.

For additional product documentation and technical support visit:

www.iconprocon.com | e-mail: sales@iconprocon.com or support@iconprocon.com | Ph: 905.469.9283



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Phone: 905.469.9283 • **Sales:** sales@iconprocon.com • **Support:** support@iconprocon.com