Fluid Pressure Monitor (FPM100)

- Monitor Up to Six Pressure/Vacuum Channels
- Uses Industry Standard 4-20mA Sensors
- Output Channels are Short Circuit Protected
- Sensors Powered Directly from NMEA 2000[®] Network
- Configurable for Fluid Pressure and Vacuum
- Many Applications Water Pressure, Hydraulic Pressure, Pump Suction or Vacuum (Clogged Filters)
- Configurable for Tank Level Monitoring
- 11 Accessory Probes (Pressure/Vacuum Transducers)





FPM100 Accessories/Installation Examples

Part #	FPM100 Accessory	MSRP
PT-0-3PSI-01	Pressure Transducer 0 to 3 PSI	\$ 5 149.00
PT-0-5PSI-01	Pressure Transducer 0 to 5 PSI	\$ 5 149.00
PT-0-10PSI-01	Pressure Transducer 0 to 10 PSI	\$ 5 149.00
PT-0-50PSI-01	Pressure Transducer 0 to 50 PSI	\$ 5 149.00
PT-0-100PSI-01	Pressure Transducer 0 to 100 PSI	\$ 5 149.00
PT-0-300PSI-01	Pressure Transducer 0 to 300 PSI	\$ 5 149.00
PT-0-500PSI-01	Pressure Transducer 0 to 500 PSI	\$ 5 149.00
PT-0-1000PSI-01	Pressure Transducer 0 to 1000 PSI	\$ 5 149.00
PT-0-3000PSI-01	Pressure Transducer 0 to 3000 PSI	\$ 5 149.00
PT-0-5000PSI-01	Pressure Transducer 0 to 5000 PSI	\$ 5 149.00
PT-SNUB-01	Pressure Snubber	\$ 62.00
PT-V-0-1BAR-01	Pressure Transducer Vacuum to 1 Bar	\$ 5 199.00



Pressure Transducer





Tank Level Monitor TLM100

- Ultrasonic Tank Sender with NMEA 2000[®] Interface
- All Fluid Types Except Gasoline
- 1/8" Depth Accuracy (-25°C to 55°C)
- Up to 40" Depth Tanks
- 2" Dead Band (2" Air Gap Required **Between Sender and Fluid)**
- Can be Calibrated for Irregular **Shaped Tanks**
- **16 Point Calibration**
- **Supports All Tank Types**
 - ✓ Fuel, Fresh Water, Waste Water, Live Well, etc
- **Non-Displacement Hulls Require Focus Tubes**
- **Empty Tanks Require Flat bottom**



Maretron's TLM100 is used to sense fluid levels of tanks by using ultrasonic technology. Ultrasonic, or sound waves, are transmitted via the TLM100 mounted at the top of the tank and the flight times of the sound waves to and from the fluid are measured much like a depth sensor. What this means for you is that there are no difficult to handle long probes protructing into the tank, which often foul and/ or corrode. Once the TLM100 calculates and transmits the fluid level over the NMEA 2000^e network, you can observe tank levels anywhere on the vessel where there is an NMEA 2000^e compatible display such as the Maretron DSM250.

The TLM100 is capable of sensing fluid levels in tanks up to 40" (1.02m) in depith. It can be used for diesel, fresh water. waste water, black water, and oil tanks (see TLM150 for gasoline tanks or TLM200 for deeper tanks). Unlike most tank senders that only work with rectangular tanks, the

TLM100 can be calibrated for irregular tank shapes so you can know the true fluid level in your tanks.

Maretron[®]

The TLM100 is mounted directly to the top of tanks using the industry standard SAE J1810 5-hole mounting pattern.



The TLM100 can also be mounted to tanks with threaded tank openings using optional adapters that included both a 1.5" NPT and a 1.25" BSP adapter. There are other important TLM100 optional accessories including an airlock for black water applications, which keeps the face of the ultrasonic transmitter from fouling and an optional focus tube to permit use on boats with planing hulls, which is required if the vessel spends a significant amount of time

Most importantly, the TLM100 is NMEA 2000[®] certified so you can view any and all tank levels anywhere on the vessel when using a compatible NMEA 2000® display. The TLM100 is another key component of Maretron's N2KViewe

Products

arel Monitor (40 ' Depth Tanis) 1.25° BSP Displacen en tHuil Tank Adapte 6" NPTDisplacement Hull Tank Adapter PE S BortPattern Bladt Water Ainy 1.25 " BSP Black Water Airlock 1.5' NPT Black Water Artook AE 5-BoitPattern Non-Displacement Hull Pocus Tube BSP Non-Exspecement Hull Focus Tible

www.maretron.com | 1-866-550-9100





Tank Level Monitor TLM150

- Ultrasonic Tank Sender with NMEA 2000[®] Interface
- **Only Gasoline**
- 1/8" Depth Accuracy (-25°C to 55°C)
- Up to 24" Depth Tanks
- 2" Dead Band (2" Air Gap Required **Between Sender and Fluid)**
- **Can be Calibrated for Irregular Shaped Tanks**
- **16 Point Calibration**
- **Non-Displacement Hulls Require Focus Tubes**
- **Empty Tanks Require Flat bottom**



Maretron's TLM150 is used to sense gasoline fluid levels of tanks using ultrasonic technology. Ultrasonic, or sound waves, are transmitted via the TLM150 mounted at the top of the tank and the flight times of the sound waves to and from the fluid are measured much like a depth sensor. What this means for you is that there are no difficult to handle long probes protruding into the tank, which often foul and/cr corrocle. Once the TLM150 calculates and broadcast the fluid level over the NMEA 2000^e network. you can observe tank levels anywhere on the vessel where there is an NMEA 2000^e compatible display such as the

The TLM150 is capable of sensing gasoline levels in tanks up to 24" (0.61m) in depth (see TLM100 for fluid types other than gasoline in tanks up to 40" or the TLM200 for tanks up to 104"). Unlike most tank senders that only work with rectangular tanks, the TLM150 can be calibrated for irregular tank shapes so you can know the true fluid level





The TLM150 is mounted directly to the top of tanks using the industry standard SAE J1810 5-hole mounting pattern. The TLM150 can also be mounted to tanks with threaded tank openings using optional adapters that include both a 1.5" NPT and a 1.25" BSP adapter. The other important optional accessory for the TLM150 is the focus tube to permit use on boats with planing hulls, which is required if the vessel spends a significant amount of time with the bow pitched up.

Most importantly, the TLM150 is NMEA 2000® certified so you can view any and all tank levels anywhere on the vessel when using a compatible NMEA 2000^e display. The TLM100 is another key component of Maretron's N2KView[®] vessel

Products Tenk Level Monitor (24' Dep th Gapoline Tanks) 1.25 " BSP Displacement Hull Tank Adapter 1.5' NPTDeplacement Hull Tank Adapter

SVE 5 - BultPattern Non-Displacen ent Hull Focus Tube 1.25 ' BSP Non-DisplacetaentHull Focus Tube

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Tank Level Monitor TLM200

- Ultrasonic Tank Sender with NMEA 2000[®] Interface
- All Fluid Types Except Gasoline
- 1/8" Depth Accuracy (-25°C to 55°C)
- Up to 104" Depth Tanks
- 6" Dead Band (6" Air Gap Required **Between Sender and Fluid)**
- Can be Calibrated for Irregular **Shaped Tanks**
- **16 Point Calibration**
- Supports All Tank Types
 - ✓ Fuel, Fresh Water, Waste Water, Live Well, etc
- Not Used on Non-Displacement Hulls
- **Empty Tanks Require Flat bottom**

TLM200 Tank Level Monitor (104" Depth)

Maretron's TLM200 is used to sense fluid levels of tanks using ultrasonic technology. Ultrasonic, or sound waves, are transmitted via the TLM200 mounted at the top of the tank and the flight times of the sound waves to and from the fluid are measured much like a depth sensor. What this means for you is that there are no difficult to handle long probes protruding into the tank, which often foul and/ or corrode. Once the TLM200 calculates and broadcast the fluid level over the NMEA 2000® network, you can observe tank levels anywhere on the vessel where there is an NMEA 2000[®] compatible display such as the Maretron

The TLM200 is capable of sensing fluid levels in tanks up to 104" (2.64m) in depth. It can be used for diesel, fresh water, waste water, black water, and oil tanks (see the TLM100 for a lower cost solution for tanks up to 40" and the TLM150 for gasoline tanks). Unlike most tank senders that only work with rectangular tanks, the TLM200 can be calibrated for irregular tank shapes so you can know the





The TLM200 is mounted directly to the top of tanks using the industry standard SAE J1810 5-hole mounting pattern. The TLM200 can also be mounted to tanks with threaded tank openings using optional adapters that include both a 1.5 $^{\prime\prime}$

Most importantly, the TLM200 is NMEA 2000® certified so you can view any and all tank levels anywhere on the vessel when using a compatible NMEA 2000[®] display. The TLM100 is another key component of Maretron's N2KView® vessel

Products

:Level Nonitor (10.4° Depth Tanks) 1.25 ' BSP Displaces en tHuil Tank Adapte Jisplacement Hull Tank Adapte

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Tank Level Monitor Accessories



Adapters Suitable for TLM100, TLM150, and TLM200 •TA-5H-1.5NPT 1.5" NPT Displacement Hull Tank Adapter •TA-5H-1.25BSP 1.25" BSP Displacement Hull Tank Adapter



Focus Tubes Suitable for TLM100, TLM150

•TFT-5H SAE 5-Bolt Pattern Non-Displacement Hull Focus Tube •TFT-1.5NPT 1.5" NPT Non-Displacement Hull Focus Tube •TFT-1.25BSP 1.25" BSP Non-Displacement Hull Focus Tube



Airlocks Suitable for TLM100, TLM150

•TAL-5H SAE 5-Bolt Pattern Black Water Airlock •TAL-1.5NPT 1.5" NPT Black Water Airlock •TAL-1.25BSP 1.25" BSP Black Water Airlock



Tank Level Adapter

- **Adapts Resistive Tank Senders to** NMEA 2000[®] (Royce, WEMA, etc.)
- American (240-30 ohm) or • European (10-180 ohm) Standard Compatible
- Can be Calibrated for Irregular • Shaped Tanks
- Can be Used With or Without • **Analog Gauges**
- **16 Point Calibration**
- **Supports All Tank Types**
 - ✓ Fuel, Fresh Water, Waste Water, Live Well. etc

TLA100 Tank Level Adapter Maretron 🗶 The TLA100 is used to adapt commercially available resistive tank senders to the NMEA 2000® network. This allows you to observe tank levels anywhere on the vessel where there are NMEA 2000® compatible displays such as the Maretron DSM250 or DSM200, The TLA100 is compatible with both the American standard (240-30 ohm) and the European standard (10-180 ohm) resistive senders. In fact, the TLA100 can be calibrated for any resistance between 0 and 300 ohms. The Maretron TLA100 has the following features: Unlike most tank senders that only work with rectangular tanks, the TLA100 can be calibrated NMEA 2000[®] Interface for irregular tank shapes so you Adapts American standard (240-30 ohm) know the true level of the tanks. resistive senders to NMEA 2000® Network You can also use the TLA100 with Adapts European standard (10-180 ohm) analog gauges at the same time as resistive senders to NMEA 2000® Network NMEA 2000[®] so you don't have to Calibrated for any Resistance Range from give up existing analog gauges to 0 to 300 Ohms or 300 to 0 Ohms enjoy the advantages of digitally Accommodates Irregularly Shaped Tanks networked information. with 16 Point Calibration 16 Programmable Tank Types Including Products Fuel, Fresh Water, Waste Water, Live Well Programmable Tank Number(s) Up to 16 Programmable Tank Capacity ant Laval Adjuster Works Alongside of Analog Gauges

Maretron*

 Can be Used Standalone without Analog Gauges

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