

# Portable Tank Measuring System

Type approved by MED(BV), USCG, ABS, RRS, CCS, CANADA, Korean & Japanese Administration

**MODEL T2000-TFC-02**

GAS-TIGHT TYPE PORTABLE OIL / WATER INTERFACE DETECTOR



**MODEL T2000-TFS-01**

RESTRICTED TYPE PORTABLE OIL / WATER INTERFACE DETECTOR



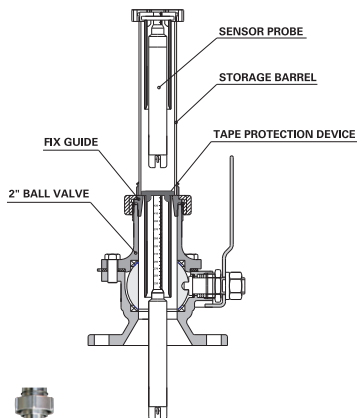
## Portable Oil/Water Interface Detector for ullage, oil / water interface & temperature gauging

### Specification

Accuracy of ullage, interface detection		± 2 mm
Indication of level divided by ullage and interface		Visible and Audible
Tape length		15 m / 30 m / 40 m
Tape graduation		Metric
Tape resolution		1 mm
Diameter of probe		34 mm
Minimum detectable level		8 mm
Ambient temperature range		-20 °C to 70 °C
Temperature sensor measurement range		-20 °C to 110 °C
Temperature measurement resolution		0.1 °C
Accuracy over calibration range		± 0.1 °C ( 0 °C to 60 °C )
Temperature reading mode		°C (Celsius) or °F
LCD display		4- 7 Segment
Top Coupling (Connection)		PF 2-1/4" TAP
Weight	TFC-02	7.4 kg / 15m
	TFS-01	6.4 kg / 30m
Overall dimensions (H x W x T)	TFC-02	APP. 585 x 346 x 150 mm
	TFS-01	APP. 607 x 297 x 140 mm
Battery		9 Volt ( Model : MN1604 )
Intrinsically safe type		Ex ia IIB T4

### Advantages

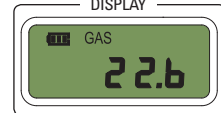
Model : T2000-TFC-02 Gas-Tight Type



- Tape protection device a void from the cut by careless valve closing.
- Sensor probe will be inserted to the protection pipe during tape rewinding and this protection device will be completely protected by the tape.
- Tape and protection device are easy to separated.

**Audible & distinguishable sound** of gas, oil & water

**LCD display**  
Showing ullage, temperature & oil/water interface



※ Phosphorous green backlight

**Only one switch action** (On / Off) for all measurement simulation

**Grounding clamp** for static discharge

**Quick coupling & convertible adaptor** to other maker

**Non-corrosive tape scale** coated by Tefzel® ETFE

**Teflon sensor probe head**  
Protection of corrosion and tank explosion from the spark.  
Sensor probe is ultrasonic, RTD temperature & conductivity sensor.

**Gas-tight & waterproof casing** for intrinsic safety

**Easy operation**

Rotating handle & push stopper for measuring and rewinding

**Anti-fog glass window** for easy tape scale reading

**Tape wiper**

for cleaning and long lifetime

**Gas-tight storage tube of sensor probe**

**Quick opening and closing deck valve**

**Demonstration tube**

**Sensor probe**

for submerging & non-floating





MODEL T2000-TSS-01

MODEL T2000-TSS-02

## Cargo Liquid Sampling Device for liquid sampling

### Specification

Tape length	15 m / 30 m / 40 m	
Tape graduation	Metric	
Tape resolution	1 mm	
Tape accuracy	± 3.2 mm / 30m	
Top coupling (Connection)	PF 2-1/4" TAP	
Weight	TSS-01	12.4 kg / 15m
	TSS-02	9.1kg / 30m
Overall dimensions (H × W × T)	TSS-01	APP. 1112 × 346×180 mm
	TSS-02	APP. 950 × 346×180 mm
Capacity of Sampling bottle	0.5 Liter	



MODEL T2000-TLS-01

## Tank Bottom Liquid and Sediments Checking Device for tank bottom dryness checking, etc.

### Specification

Tape length	30 m / 40 m / 50 m
Tape graduation	Metric
Tape resolution	1 mm
Tape accuracy	± 3.2 mm / 30 m
Top coupling (Connection)	PF 2-1/4" TAP
Weight	5.0 kg / 50M
Overall dimensions (H × W × T)	APP. 850×310×75 mm



MODEL T2000-TOS-01

## Inert Gas Sampling Hose & Adaptor

for oxygen and flammable gas concentration measuring

### Specification

Hose size	O.D 8 x I.D 6 mm
Hose length	20 m / 35 m / 45 m
Top coupling (Connection)	PF 2-1/4" TAP
Weight	3.5 kg / 35 m



MODEL T2000-TPG-01

## Pressure Gauge for inert gas pressure

### Specification

Pressure range	-1000 to 3000 mmHzO
Accuracy	1.5% of full scale
Top coupling (Connection)	PF 2-1/4" TAP
Weight	1.2 kg

## Shut On / Off Valve ( Vapor Control Valve ) for tank gauging station



MODEL TVC-01

Top Conn. : PF 2-1/4" TAP  
Flange Conn. : 25A JIS 5K FF  
or 50A JIS 5K FF  
Function : Vapor Lock Installation  
of PMS Bottom Dryness  
Checking, Etc.



MODEL TVC-02

Top Conn. : PF 2-1/4" TAP  
Flange Conn. : 50A JIS 5K FF  
or 80A JIS 5K FF  
Function : Vapor Lock Installation of  
PMS Main Tank  
Gauging Station  
(Ullage Gauging & Sampling)



MODEL TVC-04

Top Conn. : PF 2-1/4" TAP  
Flange Conn. : 100A JIS 5K FF  
Function : Vapor Lock Installation of  
PMS Main Tank  
Gauging Station  
(Ullage Gauging & Sampling)