



# LPG

## Tank Monitoring System



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# Musasino LPG Tank Monitoring System

(LPG Fuel Tank / LPG Cargo Tank)

Building on the experience of Musasino CTMS, we have developed a radar type level gauge using a one-inch pipe for gas fuel monitoring systems.

Musasino offers a new, high accuracy and high performance level gauge for LPG at a competitive price to help meet tightening environmental regulations.

Musasino LPG Tank Monitoring System's configuration complies with IGF, IGC rules.

## Easy-to-Maintain All-in-One Structure

The level gauge, temperature gauge (max. 6 points), and pressure gauge are built-in to the same housing.

The compact size saves space.

Each measurement unit is separate inside the electrical housing, enabling easy maintenance without having to open the tank.

In addition, dual level measurement (primary / secondary) is possible.

The usage of a 1-inch guide pipe, with such light weight reduces the burden of outfitting works.

## The self-correction function provides stable operation over the long-term

Developed from Musasino's extensive experience in marine use radar type level gauges and technical experience, this one-inch pipe radar type level gauge includes a self-calibration function.

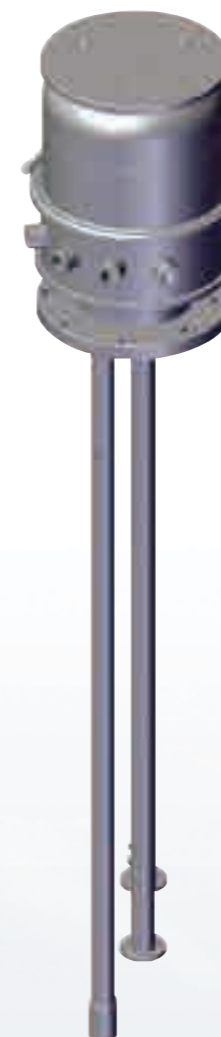
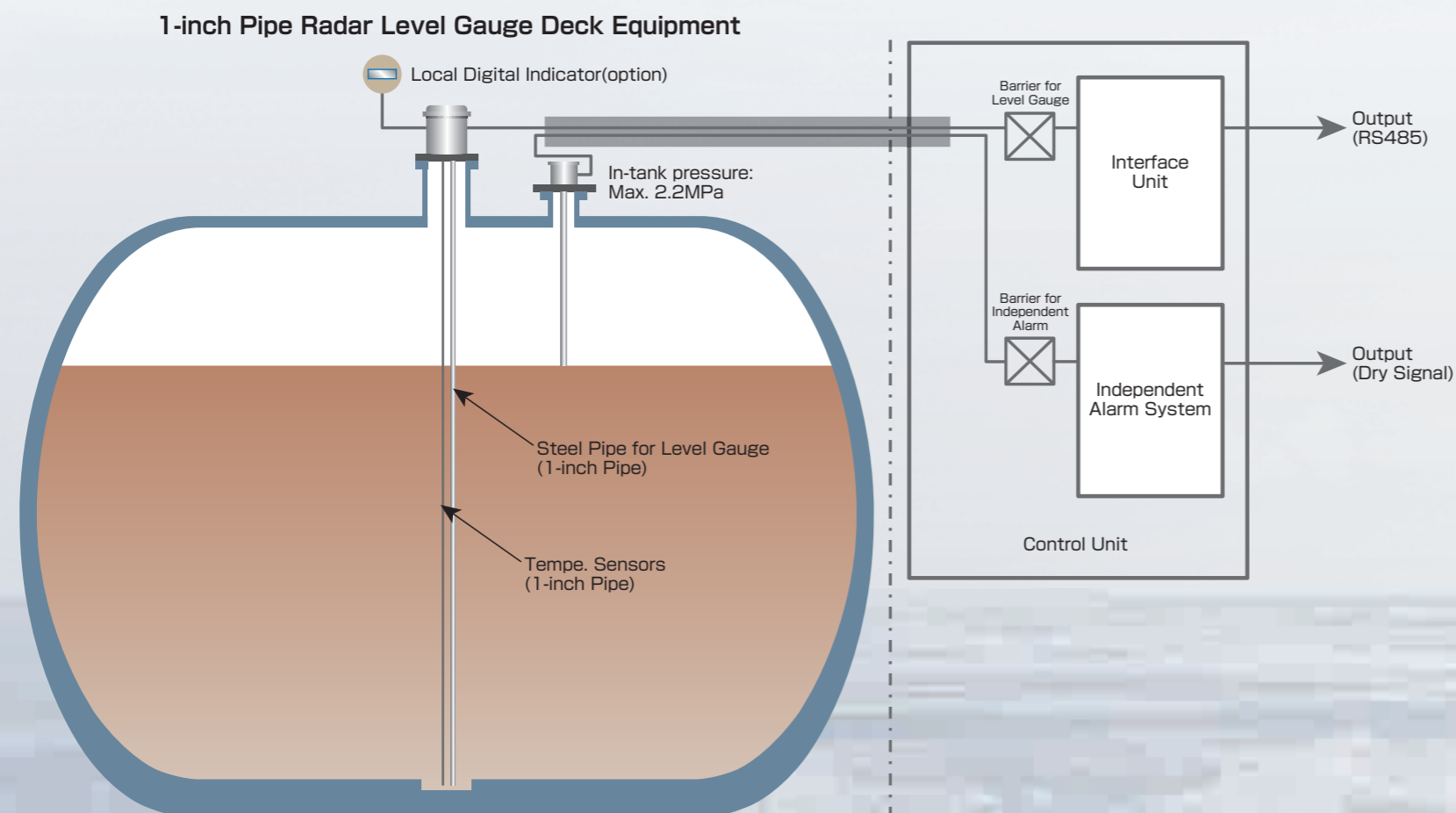
Measurements are automatically calibrated for temperature variations.

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It is possible to maintain operation with high accuracy and stable level measurement.

## High accuracy trim and heel indicator enables measuring liquid quantity measurement

The digital trim and heel indicator, measures the inclination angle using a capacitive MEMS sensor, and process it digitally to calculate the stable true inclination angle.



### Level Gauge

Application	: LNG
Measurement Method	: Frequency Modulated Continuous Wave (FMCW) Radar
Measurement Range	: 0.5m ~ 25m
Accuracy	: ±5mm
Intrinsically Safe Standard	: Intrinsically Safe Explosion-proof Type Ex ia IIC T5
Protection Class	: IP66

### Temperature Sensor

Measurement Method	: PT-100
Measurement Range	: -163 ~ 100°C
Accuracy	: ±0.5°C

### Pressure Sensor

Measurement Method	: Strain Gauge Type Diaphragm Pressure Gauge
Measurement Range	: 0 bar to 6 bar
Accuracy	: ±1.0%FS

		150A Type	125A Type	80A Type
Built-in Device (Max.)		- Level Gauge x 2 (Main/Sub) - Temp. Gauge (Max. 6 pts) - Press. Gauge x 1 - Independent Alarm x 1 (1 point sensing)	- Level Gauge x 2 (Main/Sub) - Temp. Gauge (Max. 6 pts.) - Press. Gauge x 1	- Level Gauge x 1 or Independent Alarm x 1 (1 point sensing) - Press. Gauge x 1
Flange	Standard Press. Tight	JIS or ANSI or Class certified flange 5K or 10K		
Material	Terminal box Flange Guide pipe	SUS304 or SUS316L SUS304 or SUS316L SUS304 (1-inch Pipe)		
				