

Level Gauging for Floating Dry Docks and Caissons







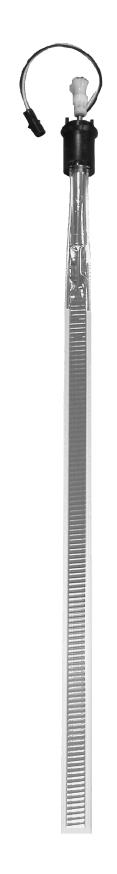








With decades of experience on dry docks used for military and commercial vessels, JOWA USA's Metritape tank level gauging systems offer proven performance under demanding conditions. They are the smart choice for dock operators seeking excellent performance combined with simple, low-cost maintenance.



Keys to Performance

Metritape Liquid Level Sensor Model LA

The reliable measurement of liquid levels in floating dry dock ballast tanks and caissons has some big hurdles to overcome. Metritape sensors clear all of these hurdles and more:

- Unaffected by silting and marine growth in tanks
- No active electronics submerged in tanks
- Sensor is active along its entire length
- No emptying or tank entry to perform maintenance

Metritape sensors have been used successfully for many years on dry docks large and small. Their durability and reliability are unmatched in this critical application. Metritape sensors are combined with a broad range of electronic packages to provide customers a clear picture of tank levels for accurate control of the dock.

Floating dry docks frequently suffer from marine growth and silt collecting in the ballast tanks. These two major issues do not render the Metritape sensor inoperable since the sensor is active along its entire length for trouble-free operation.

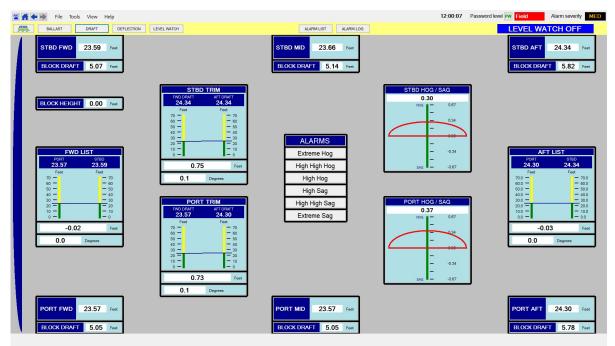
Metritape sensors and electronics are engineered and manufactured in the USA. Support, spares, and service are available globally through our USA location.



With instrumentation choices ranging from dual screens showing ballast levels, drafts, and deflection conditions for large docks to simple panel meters for small docks and caissons, JOWA USA provides the information dock operators require for complex and delicate lifting operations.

MetriDock Monitoring System

- Detailed tank information
- Multiple alarm indications & relay outputs •
- Data outputs via serial interfaces
- Highly configurable
- Dry Dock Deflection Monitoring Hog – Sag – List – Trim



Draft and Deflection Screen

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BALLAST	DRAFT DEFLECTION LEV	EL WATCH	ALARM LIST ALARM LOG			LEVEL WATCH OFF	
1 STBD	2 STBD	3 STBD	4 STBD	5 STBD	6 STBD	7 STBD	8 STBD
- 400 - 350 - 350 - 250 - 250 - 150 - 50 - 50 - 50 - 50 - 50	- 400 - 350 - 350 - 250 - 250 - 150 - 150 - 50 - 50 - 50 - 50	- 400 - 350 - 350 - 250 - 250 - 150 - 150 - 50 - 50 - 50 - 50	- 400 - 350 - 350 - 250 - 250 - 150 - 150 - 50 - 50 - 50 - 50	- 40.0 - 350 - 350 - 250 - 220 - 150 - 50 - 00 - 50 - 50	- 40 24.10 - 30 Level - 20 - 10 - 0 Status	- 40 24.14 - 30 Level - 20 - 10 - 0 Status	- 40 24.11 - 30 Level - 20 - 10 - 0 Status
1C STBD	2C STBD	3C STBD	4C STBD	5C STBD	6C STBD	7C STBD	8C STBD
- 200 - 175 - 125 - 100 - 75 - 50 - 25 - 00 - Status	- 200 - 175 - 150 - 125 - 100 - 75 - 50 - 25 - 00 - Status	- 200 - 175 - 150 - 125 - 100 - 75 - 50 - 25 - 00 - Status	- 200 - 175 - 150 - 125 - 100 - 75 - 50 - 25 - 00 - 5tatus	- 200 - 175 - 150 - 125 - 100 - 75 - 50 - 25 - 00 - Status	- 20 24.11 - 15 Level - 10 - 5 - 0 Status	- 20 24.07 - 15 Level - 10 - 5 - 0 Status	- 20 24.13 - 15 Level - 10 - 5 - 0 Status
1C PORT	2C PORT	3C PORT	4C PORT	5C PORT	6C PORT	7C PORT	8C PORT
- 200 - 17.5 - 12.5 - 12.5 - 10.0 - 7.5 - 5.0 - 2.5 - 0.0 - Status	- 200 - 17.5 - 15.0 - 12.5 - 10.0 - 7.5 - 5.0 - 2.5 - 0.0 Status	- 200 - 175 - 150 - 125 - 100 - 75 - 50 - 25 - 00 Status	- 200 - 17.5 - 15.0 - 12.5 - 10.0 - 7.5 - 5.0 - 2.5 - 0.0 Status	- 200 - 17.5 - 15.0 - 12.5 - 10.0 - 7.5 - 5.0 - 2.5 - 0.0 Status	- 20 24.14 - 15 Level - 10 - 5 - 0 Status	- 20 24.11 - 15 Level - 10 - 5 - 0 Status	- 20 24.08 - 15 Level - 10 - 5 - 0 Status
1 PORT	2 PORT	3 PORT	4 PORT	5 PORT	6 PORT	7 PORT	8 PORT
- 400 - 350 - 350 - 250 - 250 - 250 - 150 - 50 - 50 - 50 - 50 - 50 - 50 - 50 -	- 400 - 350 - 350 - 250 - 150 - 150 - 50 - 00 Status	- 400 - 350 - 350 - 250 - 250 - 150 - 150 - 50 - 00 Status	- 400 - 350 - 250 - 250 - 150 - 150 - 50 - 00 Status	- 40.0 - 35.0 - 25.0 - 15.0 - 15.0 - 5.0 - 0.0 Status	- 40 24.10 - 30 Level - 20 - 10 - 0 Status	- 40 24.08 - 30 Level - 20 - 10 - 0 Status	- 40 24.09 - 30 Level - 20 - 10 - 0 Status

Ballast Screen

Installations of Note

