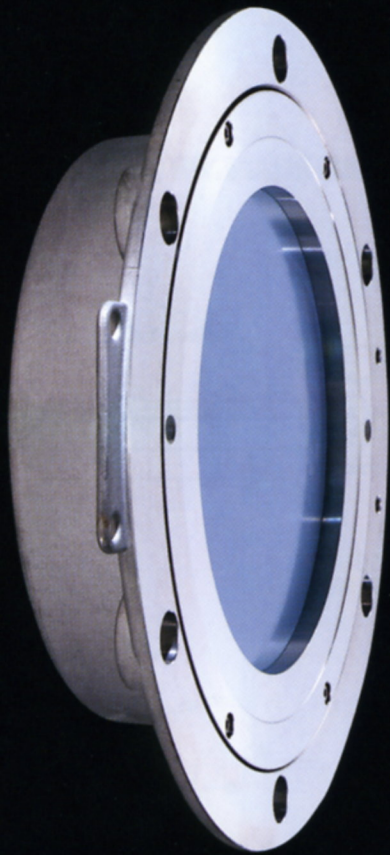


THE RADAR



SMART RADAR LEVEL SENSOR WITH GENERIC RS485 OUTPUT

The first flat array antenna for liquid tank gauging. This software driven array allows for each sensor to remotely configure itself for the type of product as well as the structural characteristics within each tank. It is completely self-diagnostic and is factory calibrated using a laser interferometer to .1mm. It is designed for the harshest environments and can be provided in a high temperature version to 385°F. It is intrinsically safe with Class 1, Div. 1, Group D & C approvals. As a smart sensor, all processing calculations and software are resident in the device itself, only a high level generic data output, i.e., RS485 (or others on request) is sent to the cargo control area.

A single cable is connected to the sensor that carries power in and data buss out. Optional cables can be connected to input temperature and IG pressure and take advantage of the data buss in the smart sensor and eliminate additional on deck cable runs.

Options:

- Multiple alarm set-points
- Temperature
- PV Pressure
- I.G. Pressure
- Big Blue Graphic Display
- On Deck LCD Displays
- Tank Management Software
- High Temperature -40°F to 385°F version
- Automated draft and trim

THE RADAR

SMART RADAR LEVEL SENSOR WITH GENERIC RS485 OUTPUT

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -20°F to +195°F
Maximum Pressure: 1.3 bar
Submersion: IP67 (3 ft.)

PHYSICAL CHARACTERISTICS

Weight: 40 lbs.
Size: 15" x 4"
Material: Stainless Steel 316L

ELECTRICAL CHARACTERISTICS

Power Supply: 110-220 VAC/50-60 Hz
Intrinsically Safe: EEx ia IIB T4

PERFORMANCE SPECIFICATIONS

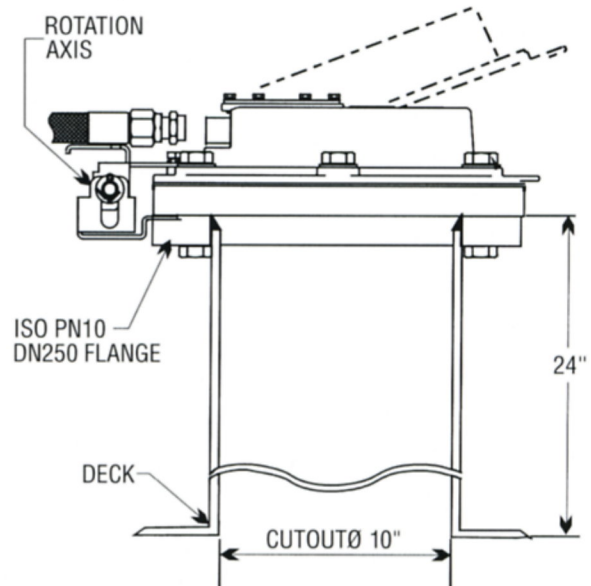
Measuring Range: Up to 125 Ft.
Beam Angle: 10°
Accuracy*: Specially designed for ±1mm
Resolution: 1mm
Scanning Rate: 1 sec for 10 Radars
MTFB: 16 years

*Sensor is laser calibrated to (.1mm) at factory

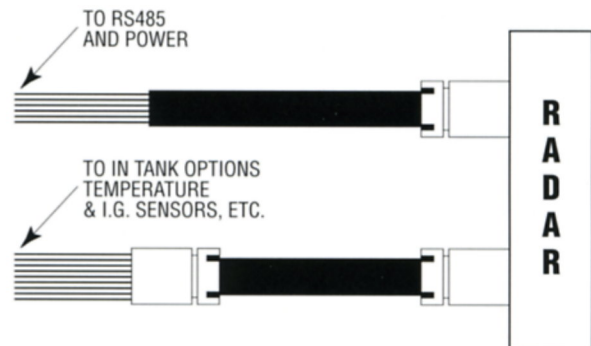
TYPE APPROVALS

Bureau Veritas
Det Norske Veritas
Lloyds Register of Shipping
American Bureau of Shipping
Polish Register of Shipping
Germeister Lloyd
Reg. Italia Navle Architect

INSTALLATION REQUIREMENTS



CABLE REQUIREMENTS



6 WIRE = 16 GAUGE L.S. 3 PAIR
10 WIRE = 16 GAUGE L.S. 5 PAIR

EMS

ELECTRONIC MARINE
SYSTEMS, INC.

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E-mail: emsmarcon@aol.com
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Specs are subject to change without notice.

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