

The logo for API Marine, featuring the letters 'A. P. I.' in a bold, sans-serif font, with 'marine' in a smaller, lowercase font below it. A thin white arc is positioned above the letters.

A. P. I.  
marine

# API Marine

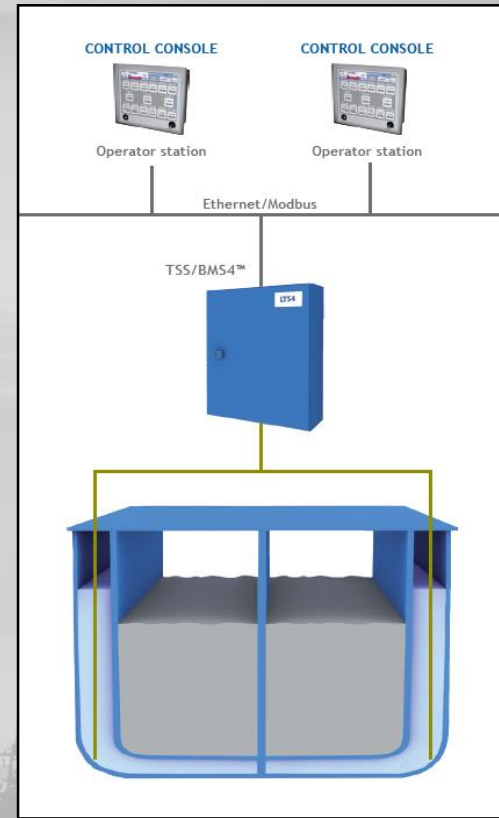
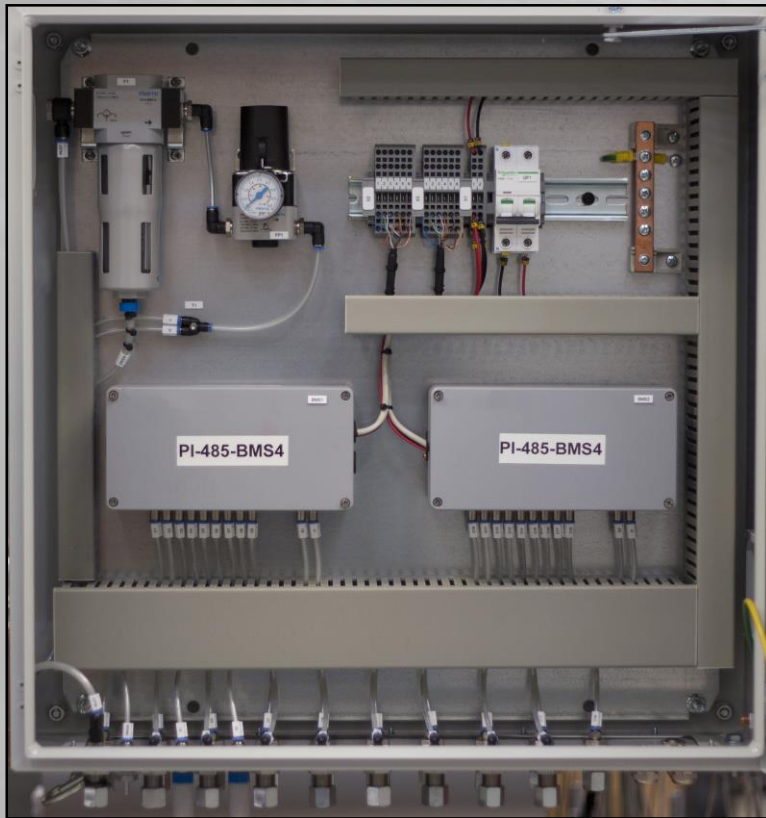
## BMS4

Remote sounding system for ballast and service tanks

API Marine ApS | Troensevej 12 | DK-9220 Aalborg Oest | Denmark  
Tel.: +45 9634 5070 | [info@api-marine.com](mailto:info@api-marine.com) | [www.api-marine.com](http://www.api-marine.com)

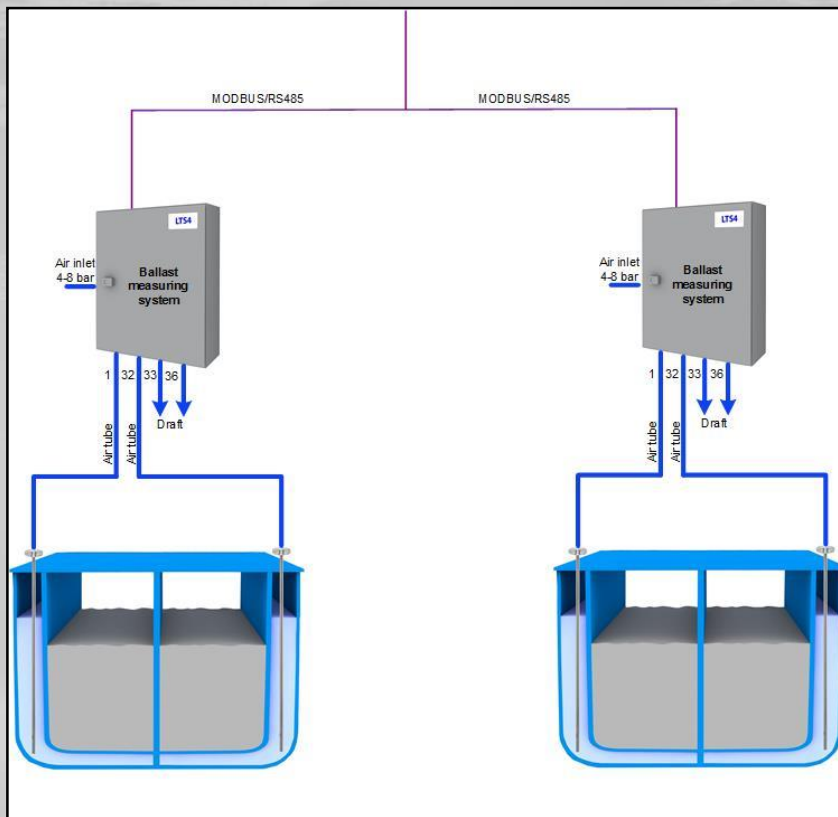
TSS / BMS4™

# Remote Sounding System



Typical Configuration

# Typical Configuration



BMS4™

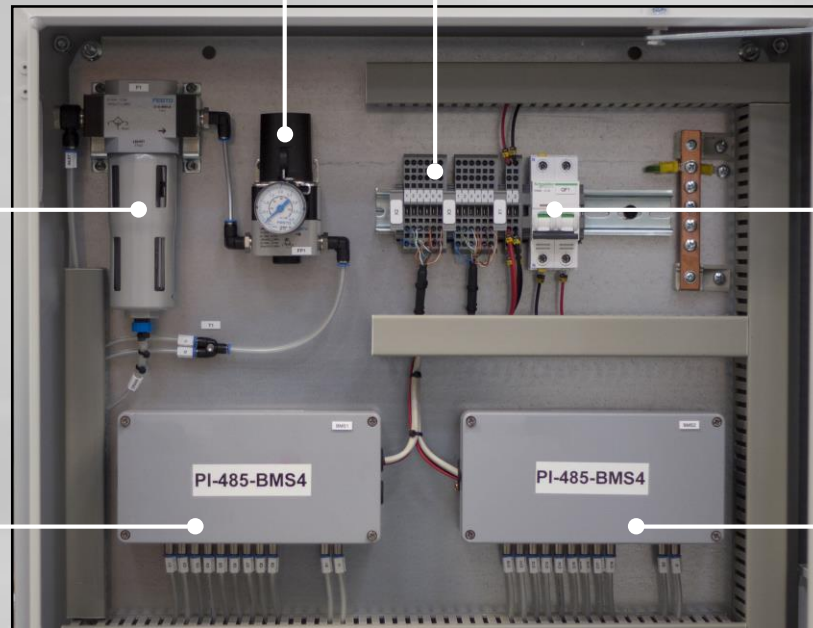
# BMS4™ System (24 Tanks)

Air regulator

Terminal block

Drain/Air Filter

Main switch

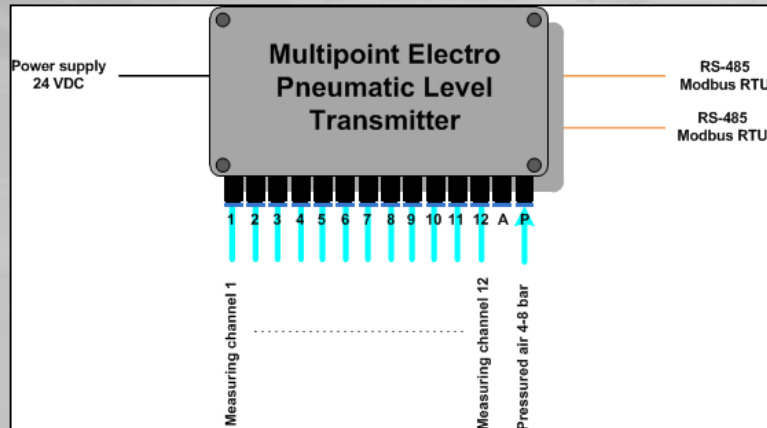


BMS Box (12 Channels)

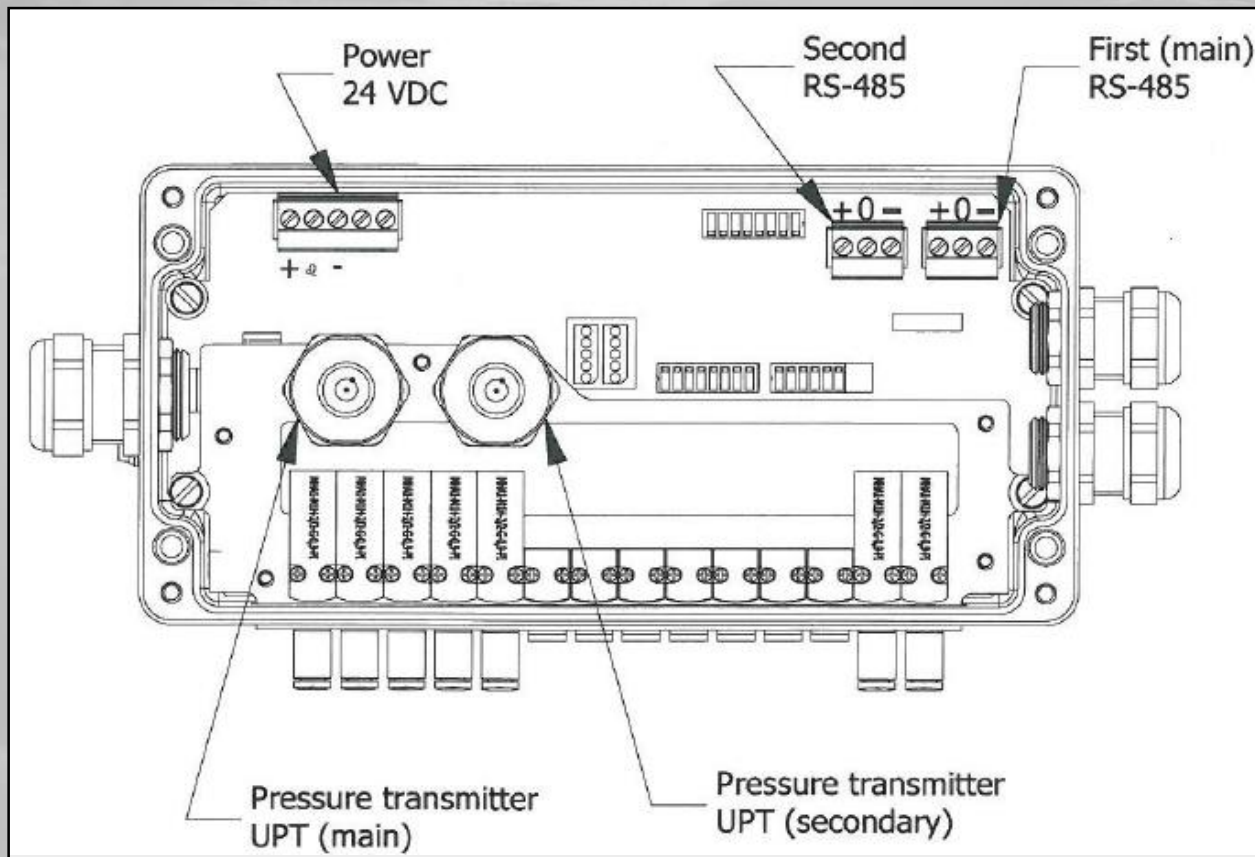
BMS Box (12 Channels)



# BMS4™ Overview



# BMS4™ Overview



# Remote Sounding System

## Features and Functions

- Electro Pneumatic level and draft measurement system suitable for all types of vessels
- Compact and fully integrated system
- Competitive pricing / low investment cost
- Flexible and modular concept and design
- Standard configurations 12, 24, 36 and 48 channels

# Remote Sounding System

## Features and Functions

- Low air consumption & less dependant on air quality
- Automatic calibration of sensor during operation
- No electrical parts in Ex zone
- Intelligent scanning feature
- Easy installation

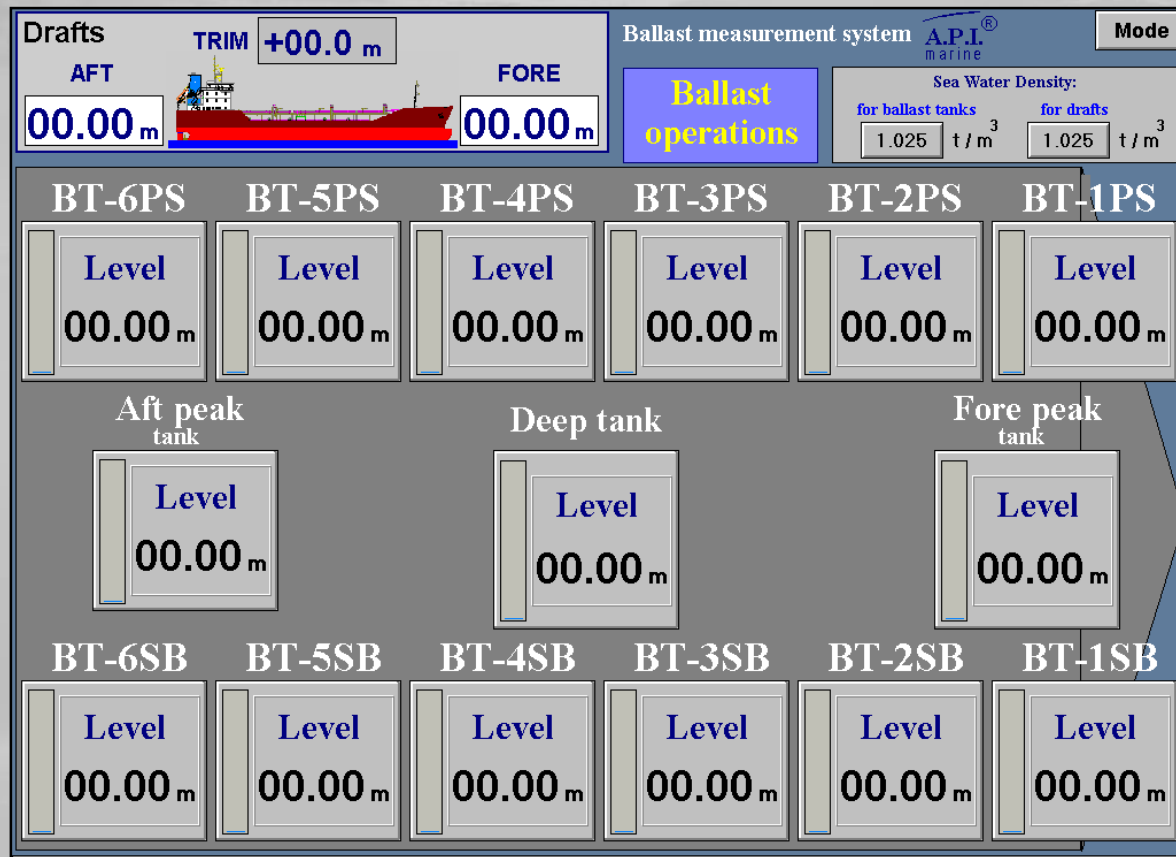


# Remote Sounding System

## Features and Functions

- Standard RS485 MODBUS output / easy interfacing
- Automatic cleaning (purging) of pipes
- Reliable and proven system
- Virtually maintenance free
- Ideal for retrofit installations
- Can easily be adapted to existing / onboard installations

# Operation System



# Installation Aspects



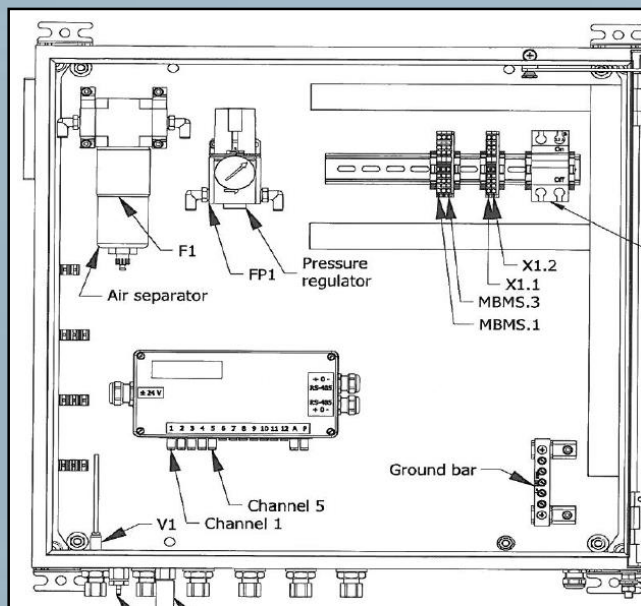
- Designed for installation on ship
- Cabling, mounting etc.
- Easy installation



BMS4™

# Scope of Supply (1 – 12 Tanks)

## BMS4 System (1 – 12 Tanks)



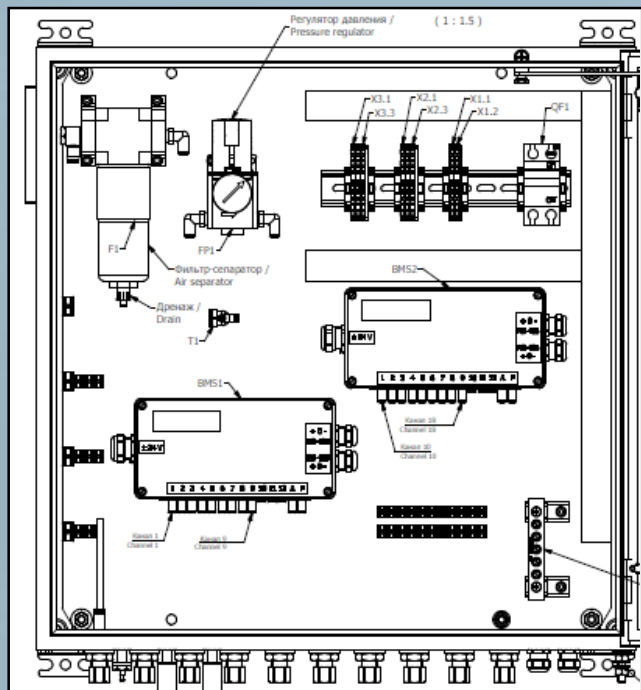
System consisting of  
Local Technological Station LTS4 (for wall mounting)

BMS4 Module with 1-12 Measuring channels (1 pc)  
Air Separator Unit  
Pressure Regulator Unit  
Measurement error:  $<0.25\%$  of the max. value of the measuring range  
Power supply: 24 VDC.  
Output: Modbus RTU, RS485 2-wires  
Pneumatic connection: 10mm x 1mm stainless steel tubing  
Filter and pressure reducer with manometer is provided for air inlet.  
Shut-off valve for air supply.  
Low pressure alarm switch (NC).  
Atmospheric correction for pressure sensors.  
Air pressure injected in cabinet: 4-8 bar.  
Automatic system calibration  
Working air pressure less than 2 bar  
Cabinet dimensions: 600x600x210mm.  
Manuals and documentation.  
Standard Spares and tools

BMS4™

# Scope of Supply (1 – 24 Tanks)

## BMS4 System (1 – 24 Tanks)



System consisting of  
Local Technological Station LTS4 (for wall mounting)

BMS4 Module with 1-24 Measuring channels (2 pc)

Air Separator Unit

Pressure Regulator Unit

Measurement error: <0.25% of the max. value of the measuring range

Power supply: 24 VDC.

Output: Modbus RTU, RS485 2-wires

Pneumatic connection: 10mm x 1mm stainless steel tubing

Filter and pressure reducer with manometer is provided for air inlet.

Shut-off valve for air supply.

Low pressure alarm switch (NC).

Atmospheric correction for pressure sensors.

Air pressure injected in cabinet: 4-8 bar.

Automatic system calibration

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Cabinet dimensions: 600x600x210mm.

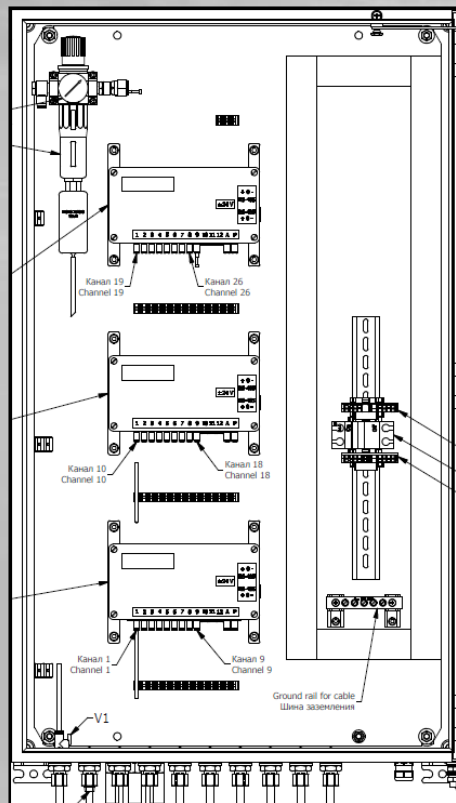
Manuals and documentation.

Standard Spares and tools

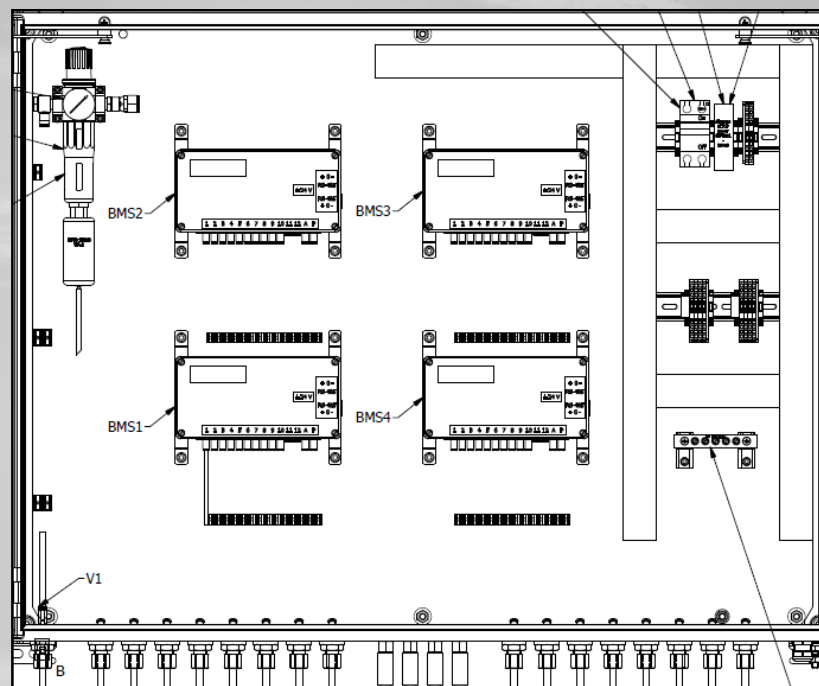


BMS4™

# Scope of Supply (1 – 36 and 1 - 48 Tanks)

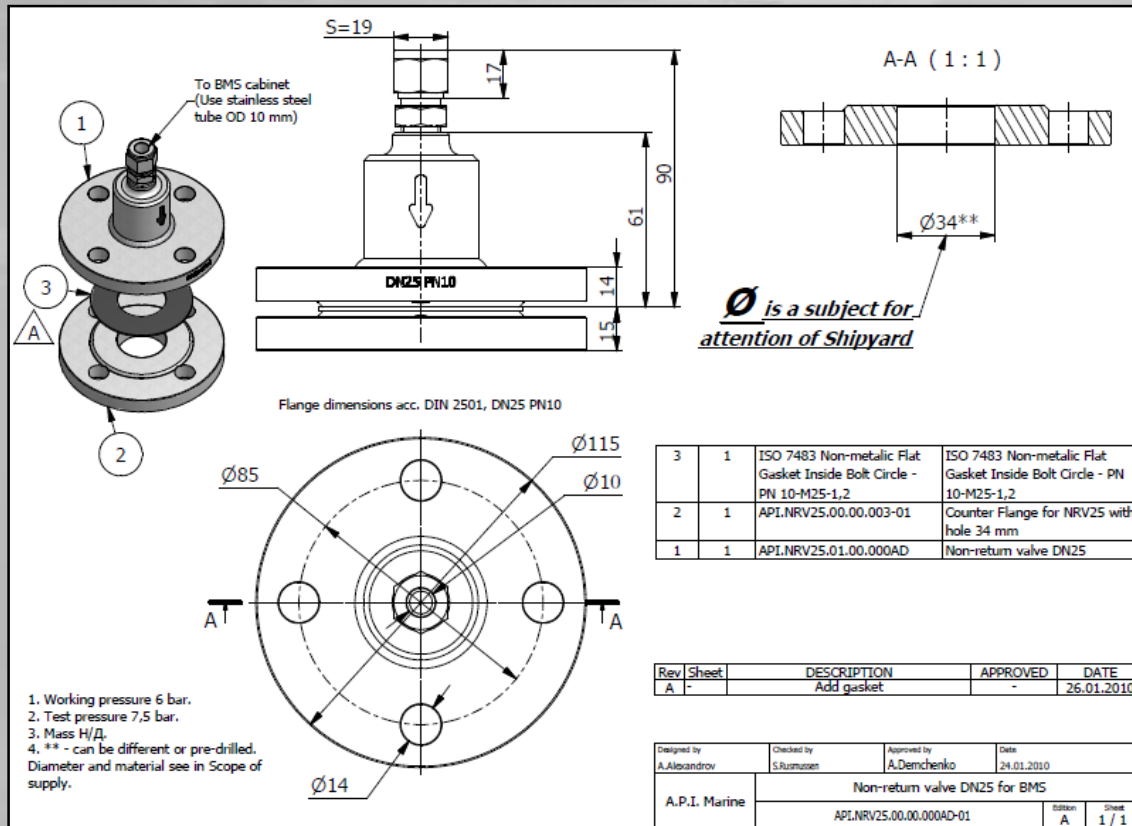


BMS4 System (1 – 36 Tanks)



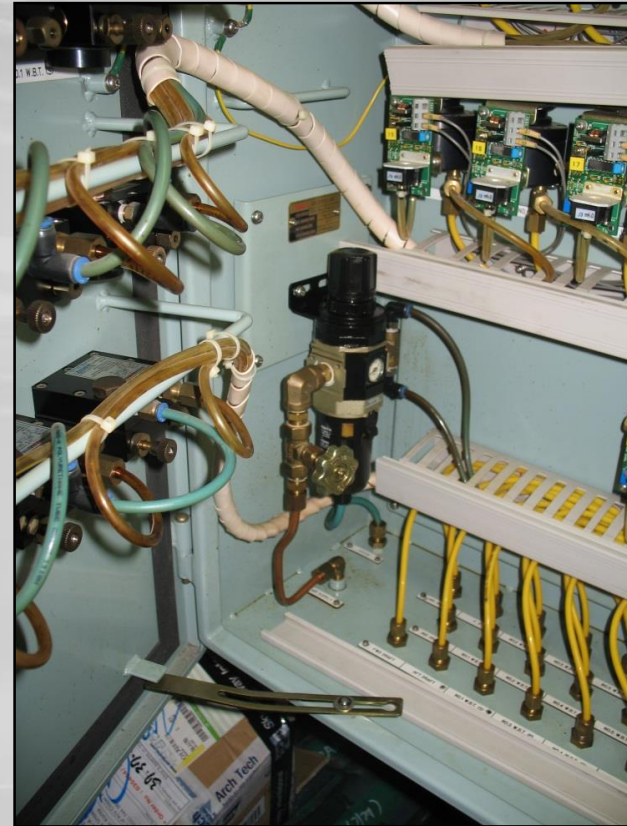
BMS4 System (1 – 48 Tanks)

# Non Return Valve



# Retrofit

- Possibility to replace existing older systems
- Tubes, connections etc. may be kept as is
- Easy and cost effective installation



# Summary and Highlights

- Competitive price and low investment cost
- Compact and modular design
- Low maintenance cost
- Easy installation



# API Marine

## Setting New Standards for Tank Measurement Technologies







API Marine ApS | Troensevej 12 | DK-9220 Aalborg Oest | Denmark  
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