

Go4 Bunker

Aviation-, Marine Fuel- & Tank Filter Systems

Blending

Go4 Fuel Blending Monitor - Fuel blending automation system

TURNKEY SOLUTIONS

There are many variables to take into account when fitting a blending system and our highly skilled engineers will adapt our system to fit your exact requirements.

TECHNICAL SUPPORT

We are with you all the way. Before, during and after the implementation to secure a flawless integration and operation.

ZERO DOWNTIME

As a central part of a bunker delivery system; mechanical stability, toughness and durability is an important aspect of the manufacturing and design philosophy.

For more information on these or other of our products or services please visit us on the Web at:

www.cbi.dk

Go4 Fuel Blending Monitor System for the Go4 Mechanical Fuel Blender



In-Line Fuel Monitor

The constantly increasing demands for control of quality parameters like viscosity, density and temperature can be fulfilled through the use of an In-line Go4 Fuel Monitor system. The system will reduce indirect loss due to over-compensation during blending, to avoid customer claims, to an absolute minimum.

The Go4 Fuel Blending Monitor System ensures an optimal and consistent quality throughout the entire blending process, along with a batch report at the end to record the process.

As an example, the reference Viscosity at 50°C is required to make a real-time control of the fuel blending process to the exact ISO8217 product specification.

The reference Viscosity is shown on an LCD display where the Operator can control the actual viscosity at reference temperature (50°C) and adjust the blending ratio if required.

OPTIONS

Basic Fuel Monitor

The basic system consist of a high accuracy Viscosity sensor for product blending with a Mechanical Fuel Blender to be within +/- 1% to the specification.

Pump for Sensor Cleaning

The system can be extended with a powerful pump securing sensor flow and cleaning.

Automatic System

A PLC Unit with a key control panel, a transmitter for registration of blended volume and a Switchboard for registration, control and reporting.

If the Go4 Monitor System is used together with the automated blending control system, the reference Viscosity at 50°C is used as an important input parameter for the advanced proprietary control algorithms, to guarantee a perfect blend.

There are several customizable options available from the Bunker Monitor, including automatic adjustment of ratio in the blending process and density control.



Go4
INTELLIGENT BUNKERING SOLUTIONS

SERVICES AVAILABLE

Consulting Services
Technical Support
Installation and Setup
Maintenance
Warranty

Go4 Fuel Blending Monitor System

OPTIONS

Option 1 - Basic Fuel Blending Monitor

The basic Fuel Blending Monitor measures the viscosity of a product blended with a Mechanical Fuel Blender with an accuracy of +/- 1% to the specification.

The basic system consist of a high accuracy Viscosity sensor, which measures the actual viscosity and temperature using reference viscosity at 50°C is calculated.

The basic Fuel Blending Monitor comprises

- Viscosity at measured temperature
- Calculate Viscosity at 50°C
- Electronic Screen Recorder
- Software for Printout on PC

Control Cabinet

The Control Cabinet has an LCD screen showing readings and registration of viscosity at measured temperature, reference viscosity at 50°C, out of range alarms, speed control and start/stop of pump.

Option 2 - Pump for Sensor Cleaning

The system can be extended with a powerful pump, securing unrestricted sensor flow and cleaning from batch to batch. It is built as a complete system in stainless steel piping on a wall-mounted plate.

The pump ensures a steady flow and pressure through the sensor, because the sensor is not fitted in the main bunker line.

Option 3 - Automation System

The Automation system includes

- PLC Unit with an electronic key control-panel
- Pulse-transmitter for registration of blended volume to be built into the flow meter
- Switchboard for registration, control and reporting

Batch Reporting

The following data are included in the report printed out after each batch

- Date and time
- Batch Number
- Customer Number
- Batch Size
- Average viscosity
- Average temperature
- Density (optional)
- Average density (optional)

Automatic Operation

In automatic mode, the operator can key in the Customer number, Batch Size and Viscosity or Density Set-Point. The Set-Point and actual achieved values are constantly displayed during the operation.

Viscosity Set- Point

The Viscosity Set-Point is used to trim the blending device for the correct viscosity of the delivered product.

Density Set- Point

The Density Set-Point is used to trim the blending device to achieve the correct density of the delivered product.

Option 4 - Bunker Delivery Note

The Bunker Delivery Note is a software tool that use Excel (not included) to generate a delivery report for each batch process, to document the entire process and the final outcome.



INTELLIGENT BUNKERING SOLUTIONS

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