VAF

Alarm Units

E.R. / Bridge

1070

Product Bulletin

TO BE
REALLY
SURE

Introduction

VAF Instruments is the most preferred supplier of the top 100 shipyards and market leader in maritime measurement systems today. Why? Because we continuously strive to improve our products and service in order to serve you better.
For one, VAF Instruments offers her customers the best, longest and most comprehensive guarantee in the maritime industry. Secondly, with a global service organisation, VAF Instruments offers a unique level of customer service. When you look for reliability and service, VAF Instruments is the logical choice.

Who is VAF Instruments?

VAF Instruments is the leading specialist for the development, manufacturing and world-wide sales of measurement and control systems. We supply both the marine- and process industry.

What do we offer?

VAF Instruments offers measurement and control systems for the marine and process industry.

Which customers do we serve?

Our instruments are used in a diversity of situations and by a variety of companies Over 70% of the top 100 shipyards worldwide we call our clients. With most of them we have long established relationships.

Why choose VAF?

Our company is based on your success. Our processes and the way we do things are designed around five guiding principles. These five principles define how we want to make a difference for you and who we are as a company.

Where can you find us?

VAF Instruments has a world-wide network, with agents all around the globe. Over 70 representatives are most willing to serve you. Please feel free to contact us or one of our representatives, any time, any place.

Consult VAF Instruments for further information.
Oilcon® Mark 6 is a registered trade mark of VAF Instruments B.V.

Signum 6

The Signum 6 can be used to monitor and supervise all kinds of machines, level sensors, engines, production processes, etc. The units provide a visual and acoustic warning signal in case of an abnormal situation.

Features

- Type approval of LR;
- DIN enclosure 96H x 96W x 72D mm;
  panel cut out 92H x 92W mm;
- Programming by infrared only;
- Printing of text card;
- Possibilty for group alarms;
- Automatically dimmed LED's.

Configuration by infrared

The configuration software program Simcon 6 is used to configure and simulate the unit. The program runs on the Microsoft® Windows™ operating system (start from Windows™ 98). No unit is needed to perform this simulation. Configuration can be saved or printed for later reference or version control.
An infrared interface delivered by VAF Instruments and an RS 232 port in your computer is needed.

Signum 10

The Signum 10 can be used to monitor and supervise all kinds of machines, level sensors, engines, production processes, etc. The units provide a visual and acoustic warning signal in case of an abnormal situation.

Features

- Type approvals of LR, DNV, BV and GL;
- DIN enclosure 144H x 72W x 140D mm;
  panel cut out 139H x 67W mm;
- Sensor loop detection (open loop & short circuit);
- Combining up to 12 units;
- Programming by infrared or by hand (push buttons);
- Printing of text card;
- Possibilty for group alarms;
- Automatically dimmed LED's.

Configuration by infrared

The configuration software program Simcon 10 is used to configure and simulate the unit. The program runs on the Microsoft® Windows™ operating system (start from Windows™ 98). No unit is needed to perform this simulation. Configuration can be saved or printed for later reference or version control.
An infrared interface delivered by VAF Instruments and an USB port in your computer is needed.

Configuration by hand

Most commonly used parameters can be programmed with the buttons on the front.

Alpha 8

The Alpha 8 can be used in a variety of applications requiring monitoring of analogue quantities such as pressure, level, temperature, etc. in the marine, offshore and process industry as long as a signal within the range of 0-20 mA, 0-10 V or a thermocouple is provided. The units provide a visual and acoustic warning signal in case of an abnormal situation.

Features

- Type approvals of LR, DNV, BV and GL;
- DIN enclosure 144H x 72W x 175D mm;
  panel cut out 139H x 67W mm;
- Combining up to 12 units;
- Programming by infrared or by hand (push buttons);
- Printing of text card;
- Possibilty for group alarms;
- Four alarm / trip levels per channel; two low and two high set points;
- Max. eight tank tables each with 10 knee points;
- Automatically dimmed LED's.

Configuration by infrared

The configuration software program Simcon 8 is used to configure and simulate the unit. The program runs on the Microsoft® Windows™ operating system (start from Windows™ 98). No unit is needed to perform this simulation. Configuration can be saved or printed for later reference or version control.
An infrared interface delivered by VAF Instruments and an USB port in your computer is needed.

Configuration by hand

Most commonly used parameters can be programmed with the buttons on the front.

BNWAS

The purpose of a Bridge Navigational Watch Alarm System (BNWAS) is to monitor bridge activity and detect operator disability which could lead to marine accidents. As of this, our BNWAS unit complies with the latest IMO standard MSC. 128 (75) and IEC62616.

Features

- Type approvals of LR, BV and GL;
- DIN enclosure 144H x 72W x 140D mm;
  panel cut out 139H x 67W mm;
- Programming by infrared only; by hand is not allowed due to IMO resolution;
- Available outputs for Voyage Data Recorder (VDR);
- Automatically dimmed LED's.

Configuration by infrared

The configuration software program Simcon Time is used to configure and simulate the unit. The program runs on the Microsoft® Windows™ operating system (start from Windows™ 98). Configuration can be saved or printed for later reference or version control. Options are protected by passwords.
An infrared interface delivered by VAF Instruments and an USB port in your computer is needed.

Configuration by hand

Because of the IMO resolution, no configuration can be done by hand.

Technical specification

Signum 6

Mechanical specifications

Field connections	by means of plug in, screw terminals up to 0,75 mm^2
Protection class	IP 52 front only
Amb. temperature	-25 - 70 °C
Relative humidity	98 % maximum (non condensing)
Mechanical Life	minimal $3 \cdot 10^6$ operations

Electric supply

Supply voltage	24 V DC (18 / 36 V DC)
Power consumption	2 W
Power current	self recovering multiface, 300 mA

General specifications

Digital Inputs	6 inputs, 3 control inputs, 1 external accept horn, 1 external accept flash
Outputs	3 outputs
Max. output rating	32 V DC, max. 50 mA
Output isolation	optocouplers, 500 V DC
Horn relay	max. 1 A / 48 V AC/DC
Fail relay	max. 1 A / 48 V AC/DC
Horn and Fail contact are potential free contacts	

Channel features

Channel states	alarm / status
Inputs:	
Delay in	0 - 99 sec.
Delay out	0 - 99 sec.
Outputs - Delay out	0 - 99 sec.

User interface

Channel LED's	6, red LED (660 nm)
Alarm	flashing / steady
Status	ON / OFF
Power indication	green LED; flashing to indicate normal operation
Configuration	infrared interface (full)

Ordering information

Signum 6	510145
Infrared device	510150

Signum 10

Mechanical specifications

Field connections	by means of plug in, screw terminals up to 1,5 mm^2
Protection class	IP 52 front only
Amb. temperature	-25 - 70 °C
Relative humidity	98 % maximum (non condensing)
Mechanical Life	minimal 3·10 ^{6} operations

Electric supply

Supply voltage	24 V DC (18 / 36 V DC)
Power consumption	2 W
Power current	self recovering multiface, 300 mA

General specifications

|	
Digital Inputs	10 inputs with failure detection, 6 control inputs, 1 external stop horn, 1 external accept flash
Outputs	13 outputs
Max. output rating	32 V DC, max. 50 mA
Output isolation	optocouplers, 500 V DC
Horn relay	max. 1 A / 48 V AC/DC
Fail relay	max. 1 A / 48 V AC/DC
Horn and Fail contact are potential free contacts	

Channel features

Channel states	alarm / status / lock
Inputs:	
Delay in	0 - 99 sec.
Delay out	0 - 99 sec.
Outputs - Delay out	0 - 99 sec.

User interface

Channel LED's	10, red LED (660 nm)
Alarm	flashing / steady
Status	ON / OFF
Power indication	green LED; flashing to indicate normal operation
Configuration	by means of push buttons at the front (limited) infrared interface (full)

Ordering information

Signum 10	516620
Infrared device	510151
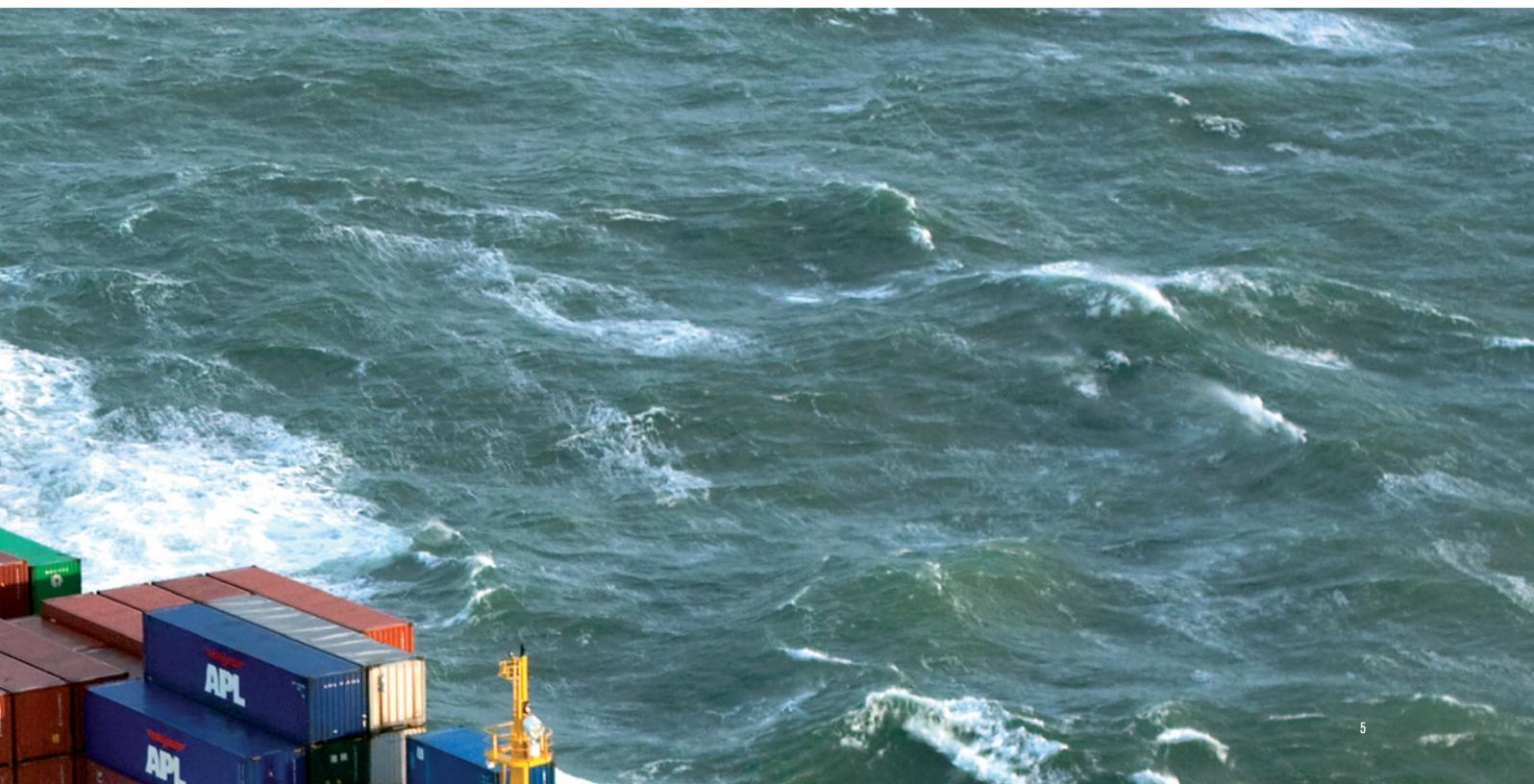
Technical specification

Alpha 8

Mechanical specifications

Field connections	by means of plug in, screw terminals up to 1,5 mm^2
Protection class	IP 52 front only
Amb. temperature	-25 - 75 ˚C
Relative humidity	98 % maximum (non condensing)
Mechanical Life	minimal 3·10^6 operations

Electric supply

Supply voltage	24 V DC (18 / 36 V DC)
Power consumption	5,5 W
Power current	self recovering multiface, 300 mA

General specifications

Inputs - Analogue	0 - 10 V, 0 - 20 mA, TC (J and K)
Digital	6 control inputs, 1 external stop horn, 1 external accept flash
Outputs	11 outputs
Max. output rating	32 V DC, max. 50 mA
Output isolation	optocouplers, 500 V DC
Horn relay	max. 1 A / 48 V AC/DC
Fail relay	max. 1 A / 48 V AC/DC
Horn and Fail contact are potential free contacts	

Sensors and ranges

T/C type	J and K (IPTS-68)
Current	0 - 20 mA, 4 - 20 mA
Voltage	0 - 10 V

Analogue to digital conversion

A / D conversion	12 bits

Input impedance

TC	> 1 MOhm
Voltage	43 kOhm
Current	100 Ohm

Channel features

Channel set points	4 set points per point, channel selectable, LL, L, H and HH
Channel states	alarm / status / inhibit
Inputs:	
Delay in	0 - 99 sec.
Delay out	0 - 99 sec.
Outputs - Delay out	0 - 99 sec.

User interface

Display	7 segments LED display red (660 nm)
	4 digits for measurment, 2 digits for set point indication,
	1 digit for channel indication
Channel LED's	8, red LED (660 nm)
Alarm	flashing / steady
Status	ON / OFF
Sensor failure	fast blinking
Power indication	green LED; flashing to indicate normal operation
Configuration	by means of 4 push buttons at the front (limited)
	infrared interface (full)

Ordering information

Alpha 8	516800
Infrared device	510151

BNWAS

Mechanical specifications

Field connections	by means of plug in, screw terminals up to 1,5 mm^2
Protection class	IP 52 front only
Amb. temperature	5 - 55 °C
Relative humidity	98 % maximum (non condensing)
Mechanical Life	minimal 3·10^6 operations

Electric supply

Supply voltage	24 V DC (18 / 36 V DC)
Power consumption	4 W
Power current	self recovering multiface, 300 mA

General specifications

Inputs	officer selection / time selection / reset timer / emergency call / heading track ON
Outputs	several for VDR
Max. output rating	32 V DC, max. 50 mA
Output isolation	optocouplers, 500 V DC
Horn relay	max. 1 A / 48 V AC/DC
Fail relay	max. 1 A / 48 V AC/DC
Horn and Fail contact are potential free contacts	

User interface

Time bar	5, red LED (660 nm)
Unit OFF	1, red LED (660 nm)
Unit ON	1, red LED (660 nm)
Unit OFF	1, red LED (660 nm)
No officer selected	1, red LED (660 nm)
Key switch	OFF / ON and Auto

Ordering information

BNWAS	515990
Infrared device	510151

VAF
INSTRUMENTS

Name:

Place and date:

For further information see relevant Product Bulletins
or www.vaf.nl

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Agents and distributors in more than 50 countries.

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