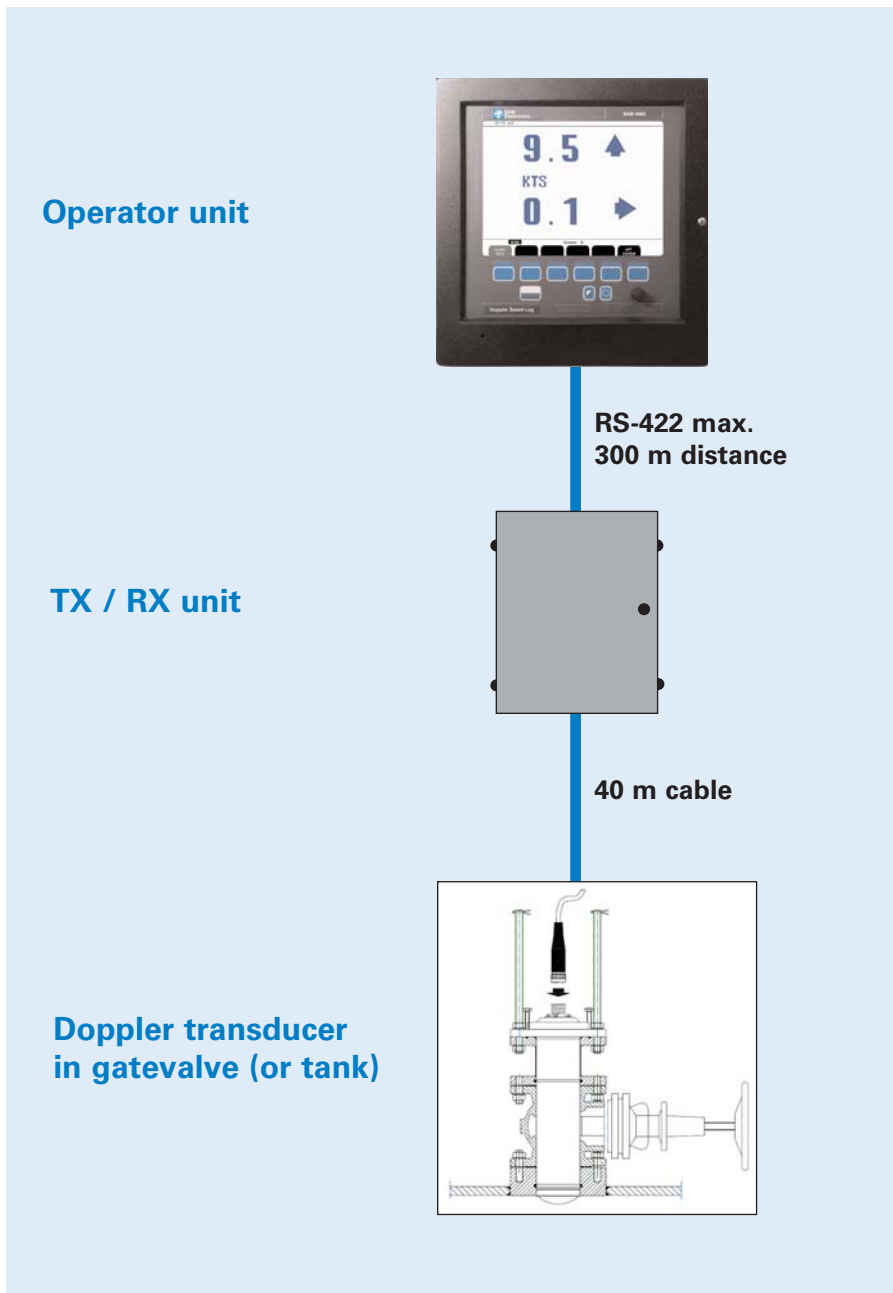


SAM 4682

Dual Axis Doppler Speed Log



General



System Summary

SAM 4682 is a navigation, 2 axis doppler log with a large, high resolution graphic LCD. An auxiliary, shallow water echosounder function is included. Display graphics are continuously shown on the LCD along with complete navigation details. All IMO requirements are met or exceeded. Comprehensive interfaces are available, including NMEA0183 input and output.

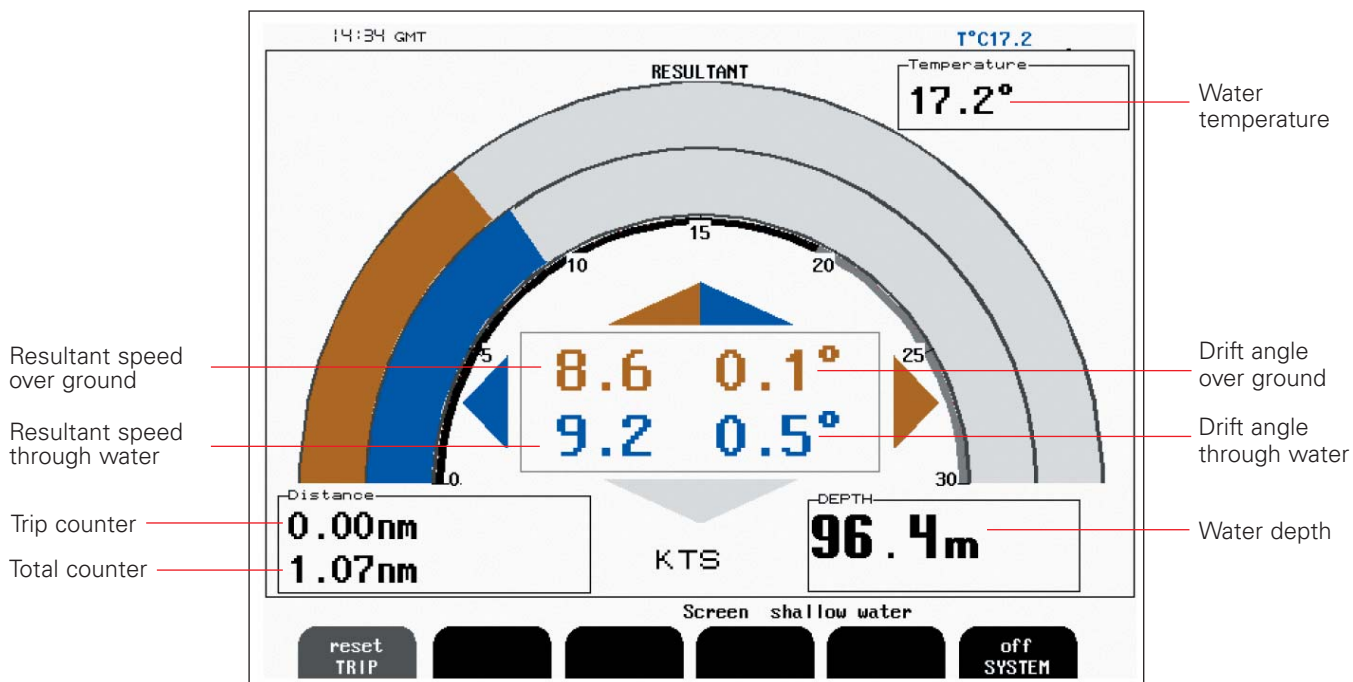
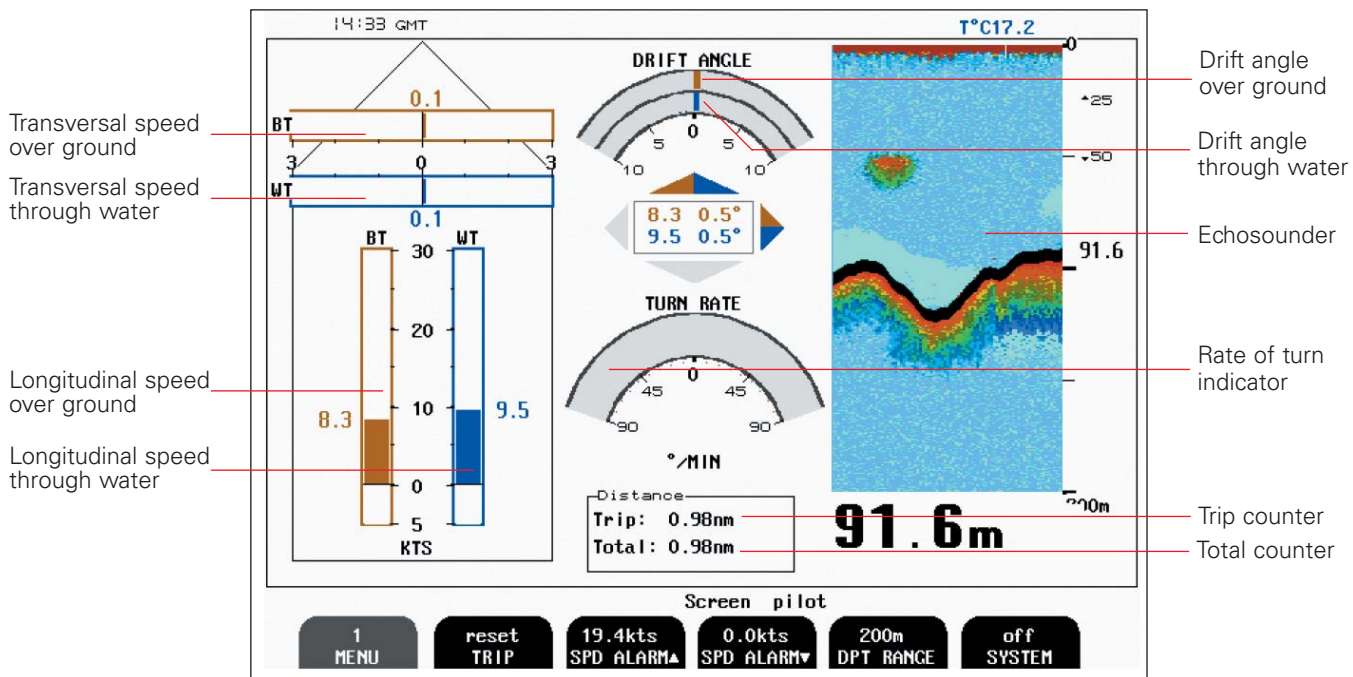
Transducer and Transceiver

SAM 4682 transducer consists of a total of 5 hydro-acoustic elements: 4 off 540 kHz elements for the 2 axis log function and 1 off 270 kHz element for the auxiliary echosounder function. The transducer is connected to a transceiver electronics cabinet located within 40 m of the transducer. Connection from the transceiver to the operator unit is via a serial RS-422 data link and distance up to 300 m. Transceiver power supply options are 230 V AC or 24 V DC. The power consumption is approximately 80 Watts at 115 / 230 V AC or 60 Watts at 24 V DC.

Operator Unit

The operator unit contains a graphic dot-matrix color TFT LCD display and a keyboard with fixed keys, softkeys and a rotating encoder. The function of each softkey button depends on the active screen, and the buttons are labelled on the lower rim of the LCD. The display is backlit, and backlight intensity may be adjusted by the user. Various user-selectable information layouts, adapted to typical operational situations, may be displayed continuously on the LCD screen. The operator unit is normally flush mounted. Brackets for bulkhead mounting are available optionally. Operator Unit power supply options are 230 V AC or 24 V DC. The power consumption is approximately 70 Watts at 115 / 230 V AC or 50 Watts at 24 V DC.

Standard Functions



Technical Data

Power supply	AC: 220 V / 110 V 50/60 Hz DC: 20 - 40 V
Power consumption	Max 100 W
Display	150 x 200 mm (10.4 inch) Colour LCD screen with adjustable backlight
Main cabinet colour	RAL 9005
Memory	For retaining operational settings
Log	
Speed range	± 40 kts in both axis
Bottom lock	1 - 75 m (1 - 150 m)**
Water track	Less than 3 m below transducer
Frequency	540 kHz / beam width 4 x 5,5° (270 kHz)**
Output power	50 W / element adjustable
Accuracy	1% of speed or 0,1 kn whichever is greater
Outputs	- 3 x Analogue 0 - 10 V and 4 - 20 mA - 2 x NMEA 0183 / RS 232 / RS 422 - 3 x 10 / 100 / 200 / 400 / 1000 pulses per Nm - Alarm relay output - VGA, for Remote Display
Inputs	- From transducer (speed, depth and temp.) - NMEA 0183 / RS 232 / RS 422 - Built-in test simulator
Languages	English, French, German, Spanish, Russian, Norwegian
Classification	IMO / DNV
Echo sounder*	
Range	Max. 100 m
Frequency	270 kHz / beamwidth 8°
Output power	100 W adjustable
Measuring accuracy	Better than 1 %
Depth alarms	Depth and shallow limits

* additional feature, does not comply with IMO performance standards for echosounding devices

** valid 2007