

**Description: Scope of Supply Change. New Color display for operator station (control panel)**

Seakeeper is pleased to announce the new Color Display now provided in the scope of supply with all new gyro systems. The color display replaces the 2 piece Black and White display/keyboard combination previously supplied. The color display is one unit, reducing the number of cut-outs required for the operator station and with the color LCD, provides a more user friendly experience and more options to view.

Here is a comparison of the old to new operator station display



OLD – TWO PIECE; OPERATOR KEYPAD AND B/W DISPLAY



NEW – SINGLE UNIT COLOR DISPLAY

The new Color display was added to the scope of supply on the following gyro serial numbers and thereafter:

<b>M5500</b>	<b>All shipments</b>
<b>M8000</b>	<b>G933 and higher</b>
<b>M26000</b>	<b>S82 and higher</b>

For reference in the scope of supply and for ordering spares:

PART NUMBER	DESCRIPTION
30229	Display, CANvu 355, with Mounting Hardware

For Mounting details please see the following attached drawing:  
90231 [COLOR OPERATOR DISPLAY ENVELOPE & MOUNTING DETAILS]

For operation of the new Color display, please see the attached Service Bulletin: 90241 Rev 1, DISPLAY SCREENS OVERVIEW – USER GUIDE

<b>TECHNICAL BULLETIN</b>	<b>Description:</b>	<b>Document #:</b>	<b>Rev:</b>	<b>Page:</b>
	Desc. of Process	90249	1	2 of 10

### REVISION HISTORY

<b>REVISION</b>	<b>DESCRIPTION OF CHANGES</b>	<b>DATE</b>	<b>APPROVED</b>
1	INITIAL RELEASE	01/06/14	

SEAKEEPER, INC.

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8 7 6 5 4 3 2 1

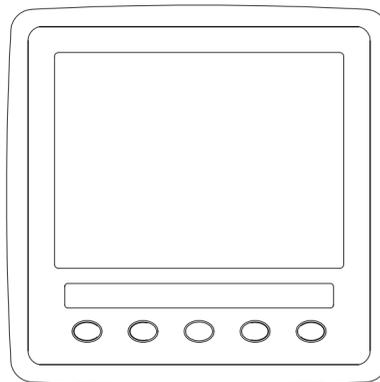
NOTES:

1. SEAKEEPER 30229, OPERATOR DISPLAY.
2. SPECIFICATIONS  
Power Required: (from Controller)  
Ambient Air Temperature: -20 to 70 degC  
Cooling: None required within ambient temperature range  
Weight: .25 lbs (.1 Kg)  
Ingress Protection: IP 55  
Cable: 1m Length, P/N 20204

REVISIONS					
ZONE	ECN NO.	REV	DESCRIPTION	DATE	APPROVED

3. SURFACE MOUNTING INSTRUCTIONS  
Console space required: Approx. 4.25 W x 4.25 H inches (108 x 108 mm)  
Mounting Instructions: Surface mount to vessel console panel, 3.375 inch (86mm) hole; with threaded mounting kit. Use template provided in Installation Manual.  
Maximum panel thickness: 0.750 inches (19 mm)  
Minimum panel thickness: .120 inches (3 mm)  
Refer to display drawing dimensions and mounting template before installing.  
VERIFY ALL DIMENSIONS BEFORE MOUNTING OR CUTTING ANY HOLES.

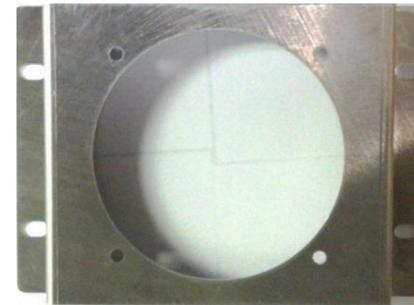
4. FLUSH MOUNTING INSTRUCTIONS  
Console space required: Approx. 6 W x 4.25 H inches (152 x 108 mm) on surface of console. Approx. 6.5 W x 4.5 H inches (165 x 114 mm) underside of console .  
Mounting Instructions: Flush mount to vessel console panel, 3.36 x 3.36 inch (85 x 85 mm) opening; with threaded mounting kit. Use template provided in Installation Manual.  
Maximum panel thickness: 0.120 inches (3 mm)  
Minimum panel thickness: .120 inches (3 mm)  
Refer to display drawing dimensions and mounting template before installing.  
VERIFY ALL DIMENSIONS BEFORE MOUNTING OR CUTTING ANY HOLES.



SEAKEEPER 30229 COLOR DISPLAY



SEAKEEPER 30230 SUNCOVER



SEAKEEPER 20209 FLUSH MOUNT BRACKET

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APPLICABILITY	
M7000	
M7000A	
M8000	X
M21000	
M21000A	X
M26000	X
M5500	X

NAME	DATE
DRAWN GW SKLAR	27JUNE13
CHECKED S. GOSS	27JUNE13
ENG APPR.	

COMMENTS:  
ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

SCALE 1:1 WEIGHT .25 LBS (.1 KG) SHEET 1 OF 2

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TITLE  
**COLOR OPERATOR DISPLAY ENVELOPE & MOUNTING DETAILS**  
(SEE TABLE FOR MODEL APPLICABILITY)

SIZE C DWG NO. 90231 REV 1

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8 7 6 5 4 3 2 1

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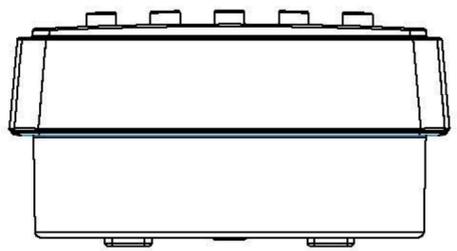
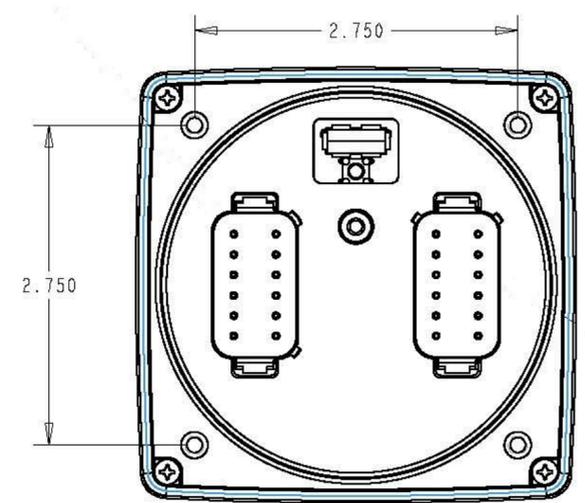
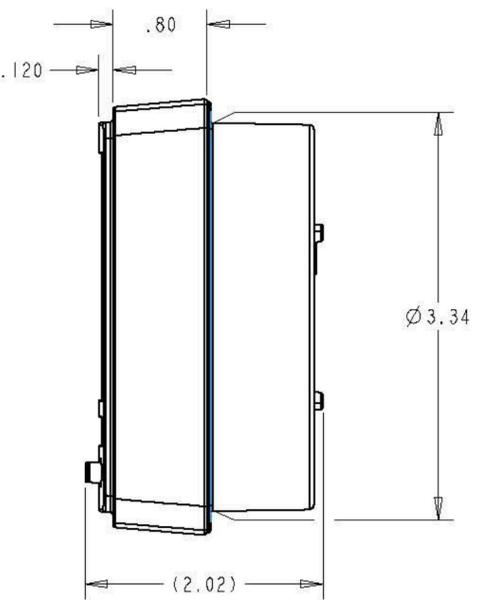
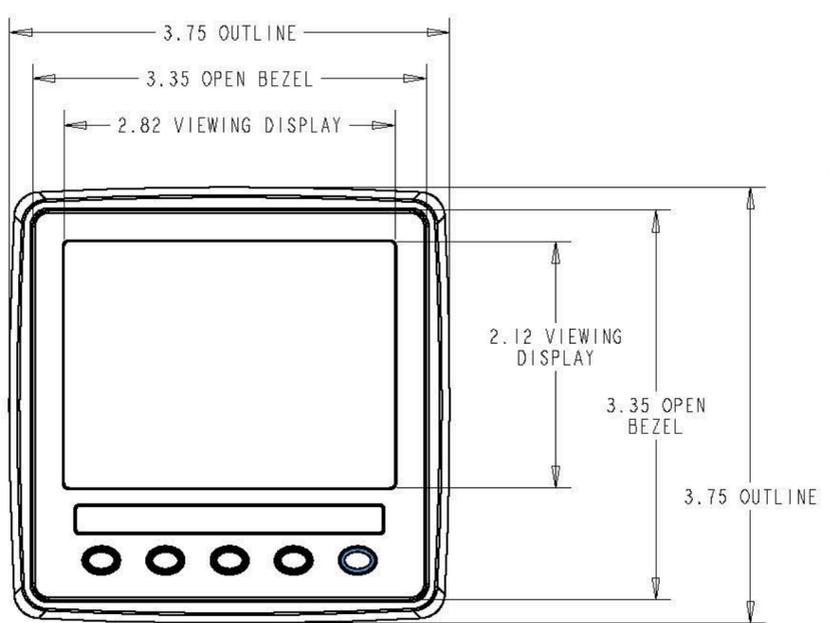
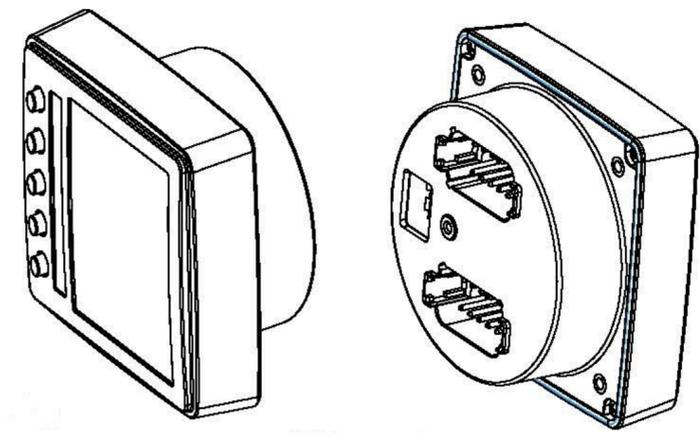
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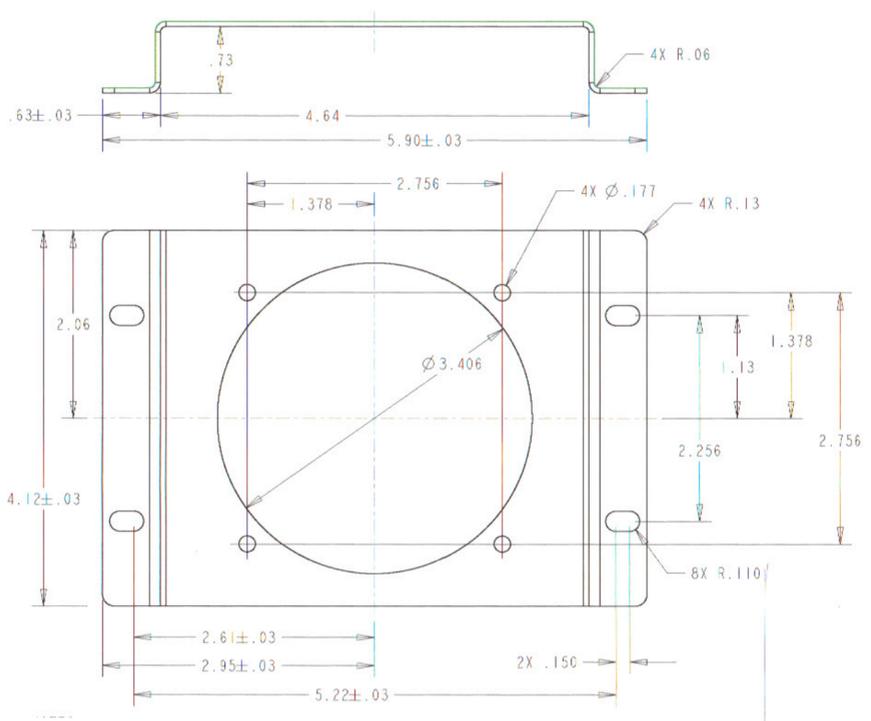


COLOR DISPLAY DIMENSIONS, NOT TO SCALE, P/N 30229

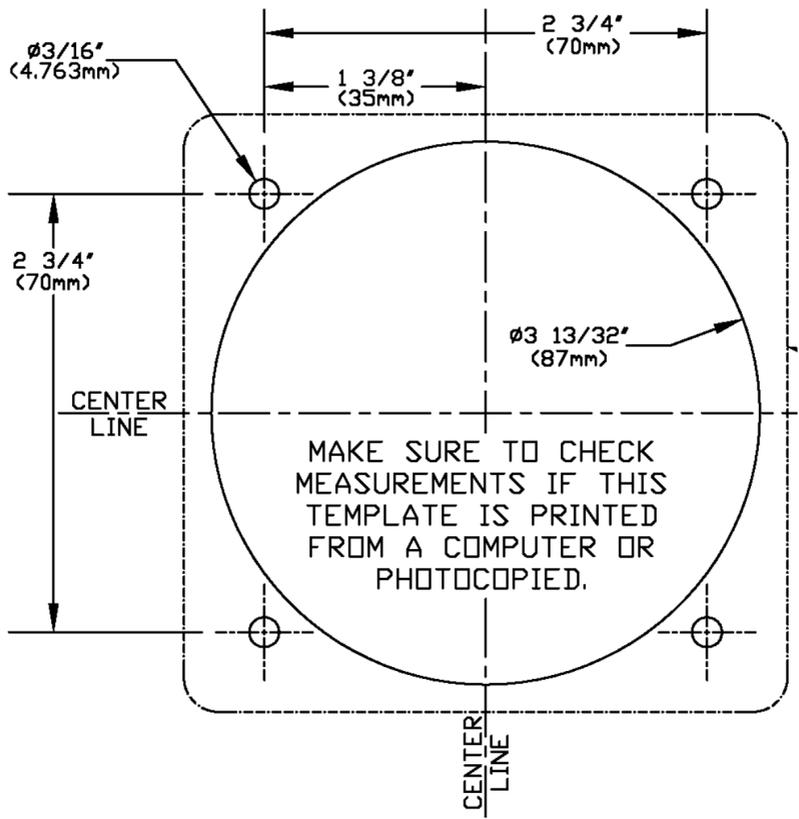
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SIZE <b>C</b>	DWG NO. <b>90231</b>	REV <b>1</b>
SCALE N/A	WEIGHT N/A	SHEET 2

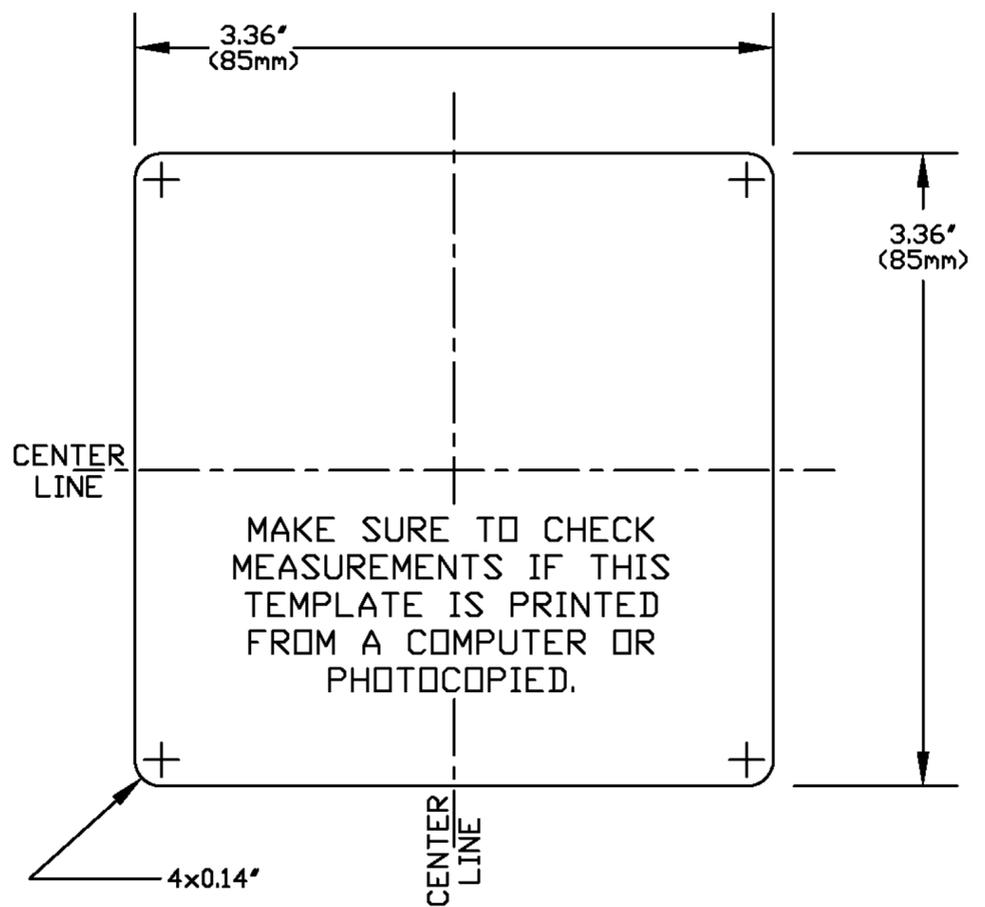
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**COLOR DISPLAY FLUSH MOUNT BRACKET, NOT TO SCALE, P/N 20209**



**COLOR DISPLAY SURFACE MOUNT TEMPELATE, NOT TO SCALE**



**COLOR DISPLAY FLUSH MOUNT TEMPELATE, NOT TO SCALE**

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SIZE <b>C</b>	DWG NO. <b>90231</b>	REV <b>1</b>
SCALE N/A	WEIGHT N/A	SHEET 3

**Description: DISPLAY SCREENS OVERVIEW – USER GUIDE**

## 1.0 Introduction

This section is an overview of the display screens for the Seakeeper Color Display for M5500, M8000, and M26000 gyro models.

### 1.1 Display Screens: Overview

- 1) When 24 Vdc is applied to the Gyro Control Box the DISPLAY will power up and initialize. The SPLASH screen will be displayed



- 2) After the DISPLAY has initialized the HOME screen will be displayed



- 3) The DISPLAY has a set of five buttons that are under the BUTTON ICONS that appear on the display screen. The BUTTONS are the means for selecting the functions of the DISPLAY.



## Description: DISPLAY SCREENS OVERVIEW – USER GUIDE



- a.  GYRO ON/OFF and FAULT RESET
- The ICON will change from red (GYRO OFF) to green (GYRO ON)
  - The ICON will turn red indicating the GYRO is off when a fault appears
  - When a FAULT occurs the BUTTON is used to reset the active fault
- b.  GYRO LOCK/UNLOCK
- When the GYRO control is initializing, or the GYRO off, the lock symbols will both be blue
  - When the GYRO is in LOCK mode, stabilization is off, the LOCK symbol will be red 
  - When the GYRO is UNLOCK, stabilization is on, the UNLOCK symbol will be green 
- c.  DISPLAY DAY/NIGHT
- Toggles the DISPLAY brightness between the Day and Night settings

Description: DISPLAY SCREENS OVERVIEW – USER GUIDE



d. HOME SCREEN VIEW

- i. Switches the HOME screen views from an animation screen, to a screen displaying arrows with no animation, to a screen that shows GYRO rate on a graph



Home Screen with Animation: Flywheel will be spinning and gyro stabilizing



Home Screen with Arrows for flywheel spinning and stabilizing



Home Screen indicating Gyro Rate



e. SETTINGS SCREEN

- i. Changes from the HOME screen to the SETTINGS screen

- 4) When the button is depressed for the SETTINGS screen  the DISPLAY changes to the SETTINGS screen



## Description: DISPLAY SCREENS OVERVIEW – USER GUIDE



- a. Allows the brightness of the DISPLAY to be increased or decreased. The brightness settings for the DAY or NIGHT modes can be independently adjusted by selecting the DAY or NIGHT on the main page before entering the SETTINGS screen.

1. When the button is depressed the BRIGHTNESS settings appears



2. The BRIGHTNESS is decreased or increased by depressing the MINUS button



or the PLUS button



3. To navigate back to the SETTINGS screen the BACK button is depressed



- ii. Adjusts the sleep function of the DISPLAY from one minute to 30 minutes or the DISPLAY screen on all of the time

1. When the button is depressed the DISPLAY SLEEP TIMER setting appears



2. The SLEEP TIME is decreased or increased by depressing the MINUS button



or the PLUS button



3. To return back to the SETTINGS screen the BACK button is depressed



- iii. Changes the DISPLAY to the SERVICE screen



- iv. Returns the DISPLAY to the HOME screen

Description: DISPLAY SCREENS OVERVIEW – USER GUIDE

- 5) When the button  is depressed for the SERVICE screen the DISPLAY changes to the SERVICE screen. The SERVICE screen displays the FAULT history of the GYRO



- a. To scroll through the ALARM history the UP button  and DOWN button  are depressed

- b. To change to the GYRO information screen the NEXT button is depressed 

- c. To change back to the SETTINGS screen the BACK button is depressed 

- 6) The GYRO information screen displays the GYRO model, GYRO serial number, GYRO software version, DISPLAY software version, RUN hours, and SEA hours. This screen also allows Seakeeper Service personnel access to additional service functions.



- a. The RETURN button  will return the DISPLAY to the SERVICE screen.