SAUER DANFOSS

DP600 Series PLUS+1 Mobile Machine Displays

+1™ COMPLIANT

DP600 Series Graphical Terminals

INTRODUCTION

The Sauer-Danfoss DP600 series of mobile machine displays are members of the PLUS+1 family of mobile machine management solutions.

The DP600 series provides mobile machine OEMs with a wide range of rugged, high performance and high quality displays.

The DP600 series variants include several input options, dual CAN ports, USB Host and/or device option as well as an RS232 interface.

The DP600 display family feature robust mechanical, electrical and environmental specifications that stand up against the harshest operating conditions found in today's mobile machine applications.
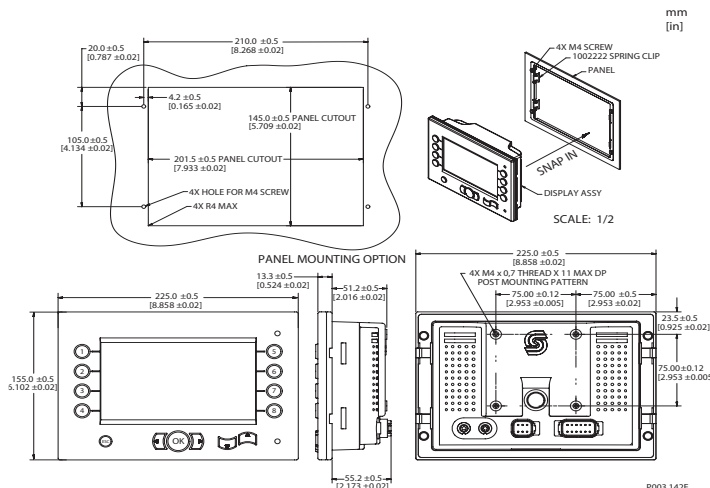
Features

- Same outside dimensions for both screen variants:
    - 256 Color advanced TFT 400 x 240 pixels, transflective
    - Monochrome LCD 320 x 240 pixels, transflective

- Two mounting options:
    - Flush mount in dashboard
    - Stand alone post mount according to VESA standard 75mm x 75mm [2.953 in x 2.953 in]

- Fully integrated connectors and silicone keypad provide water and dust protection from all sides

- Wide storage and operating temperature range

- GORE-TEX® membrane prevents moisture ingress and screen fogging

- 14 programmable backlit buttons provide superior tactile feedback.

- All buttons have green backlight design for low light and night use

- Ultra-bright red alarm LED

- ISOBUS virtual terminal functionality

- Protective glass integrated into keypad provides superior antiglare and contrast control under all light conditions

- Integrated light sensor for automatic backlight adjustment

- Inputs for external menu navigation button give the driver full control while driving

- Up to two external video inputs

- Digital output for external ALARM buzzer

Data Sheet

SAUER DANFOSS

Technical data

	Graphical Terminal	DP600	DP601	DP610	DP620
Hardware	Processor	ARM 7			
	ROM	8 MB			
	RAM	8 MB			
	FRAM	8 MB (256k available for application data storage)			
	Real Time Clock	Date and Time accuracy: 1 second/24 hours Minimum back-up time: 30 days			
	Power Supply/ Consumption	9–36 VDC/ 15W maximum			
Connector	Deutsch DTM 12-pin	•	•	•	•
	Deutsch DTM 6-pin	•	•	•	•
	Binder 7-pin (USB/RS232)	•	•	•	•
	Binder 5-pin (video)	•	•	–	–
Display	Resolution (dpi)	400 x 240	400 x 240	400 x 240	320 x 240
	Size/Type	6.5 inch/ TFT color	6.5 inch/ TFT color	6.5 inch/ TFT color	6 inch/ LCD monochrome
	Transflexive	•	•	•	•
Environmental	IP rating	IP67 Note: Unused connections must have sealing plugs for IP rating to be valid.			
	Operating temperature −30° to +70° C (−22° to +158° F)	•	•	•	–
	−20° to +70° C (−4° to +158° F)	–	–	–	•
	Storage temperature	−30° to +80° C (−22° to +176° F)			
	Weight	.95 kg (1.14 kg in packaging)			
	Vibration	5g			
	Shock	30g			
	EMC immunity	100 V/m			
	Electrostatic discharge	15 kV			
Communication	CAN 2.0B	2 Baud rates: 111 kbit, 250 kbit, 500 kbit, 1Mbit 2 pins for CAN shield (acc. to J1939) (2nd CAN port internally terminated at 120Ω)			
	ISOBUS ISO11783	–	•	–	–
	USB 2.0	•	•	•	•
	RS232	Baud rates: 1200, 2400, 9600, 19,200, 28,800, 38,400, 115,200 baud. No handshake available.			
Inputs/Outputs	Digital Inputs	3 (2 inputs designed for 90° A/B encoder signals)			
	Integrated ambient light sensor	•	•	•	•
	Integrated high brightness LED	•	•	•	•
	Video input (composite PAL)	2 Note: only one video input at a time possible	2 Note: only one video input at a time possible	–	–
	Digital output (0.5A)	1			

Installation drawing

mm [in]

20.0 ±0.5 [0.787 ±0.02]
210.0 ±0.5 [8.268 ±0.02]
4.2 ±0.5 [0.165 ±0.02]
145.0 ±0.5 PANEL CUTOUT [5.709 ±0.02]
105.0 ±0.5 [4.134 ±0.02]
201.5 ±0.5 PANEL CUTOUT [7.933 ±0.02]
4X HOLE FOR M4 SCREW
4X R4 MAX

4X M4 SCREW
1002222 SPRING CLIP
PANEL
SNAP IN
DISPLAY ASSY
SCALE: 1/2

PANEL MOUNTING OPTION

13.3 ±0.5 [0.524 ±0.02]
225.0 ±0.5 [8.858 ±0.02]
51.2 ±0.5 [2.016 ±0.02]
155.0 ±0.5 5.102 ±0.02
55.2 ±0.5 [2.173 ±0.02]

225.0 ±0.5 [8.858 ±0.02]
4X M4 x 0,7 THREAD X 11 MAX DP POST MOUNTING PATTERN
75.00 ±0.12 [2.953 ±0.005]
75.00 ±0.5 [2.953 ±0.02]
23.5 ±0.5 [0.925 ±0.02]
75.00 ±0.12 [2.953 ±0.005]

P003 142E

Note: For pin configuration details, see the document *DP600 Technical Information* (520L0699).

Ordering Information

DP600	Part Number 10100890
DP601	Part Number 10101912
DP610	Part Number 10100889
DP620	Part Number 10100888

520L0737 • Rev DA Mar 2012