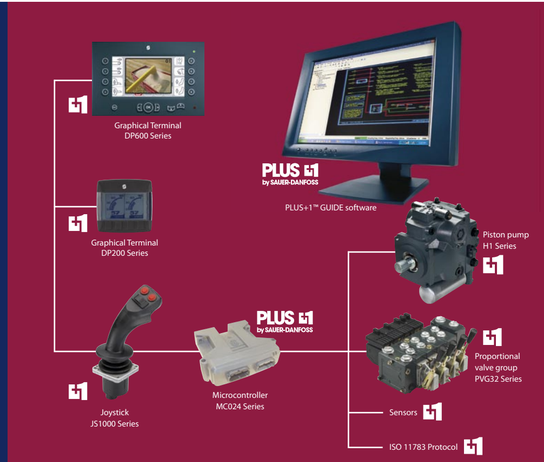
Graphical Terminal by day
DP600 Series

Graphical Terminal by night
DP600 Series




**PLUS+1™ Compliant - optimal control and monitoring**

All Sauer-Danfoss graphical terminals are compatible with PLUS+1™ microcontrollers and software. PLUS+1 allows you to rapidly develop and customize electronic machine control. It opens up the future by combining machine controls and diagnostics in an integrated operating network. The system connects the interactive control of different machine components, for example, valves, pumps, motors, joysticks, inverters, sensors, and – of course – graphical terminals.

Sauer-Danfoss graphical terminals and PLUS+1 technology provide the optimal control and monitoring system for off-highway OEMs in agriculture, construction, road building, materials handling, forestry, turf care, and specialty.

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**Sauer-Danfoss** is a comprehensive supplier providing complete systems to the global mobile market. We offer our customers optimum solutions for their needs and develop new products and systems in close cooperation and partnership with them. Sauer-Danfoss specializes in integrating a full range of system components to provide vehicle designers with the most advanced total system design.

- Hydrostatic transmissions
- Hydraulic power steering
- Electric power steering
- Electrohydraulic power steering
- Closed and open circuit axial piston pumps and motors
- Gear pumps and motors
- Bent axis motors
- Orbital motors
- Transit mixer drives
- Proportional valves
- Directional spool valves
- Cartridge valves
- Hydraulic integrated circuits
- Hydrostatic transaxles
- Integrated systems
- Fan drive systems
- Electrohydraulics
- Microcontrollers and software
- Electric motors and inverters
- Joysticks and control handles
- Displays
- Sensors

**Sauer-Danfoss** provides comprehensive worldwide service for its products through an extensive network of Global Service Partners strategically located in all parts of the world.

Please contact the Sauer-Danfoss representative nearest you.


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SAUER DANFOSS
*What really matters is inside®*

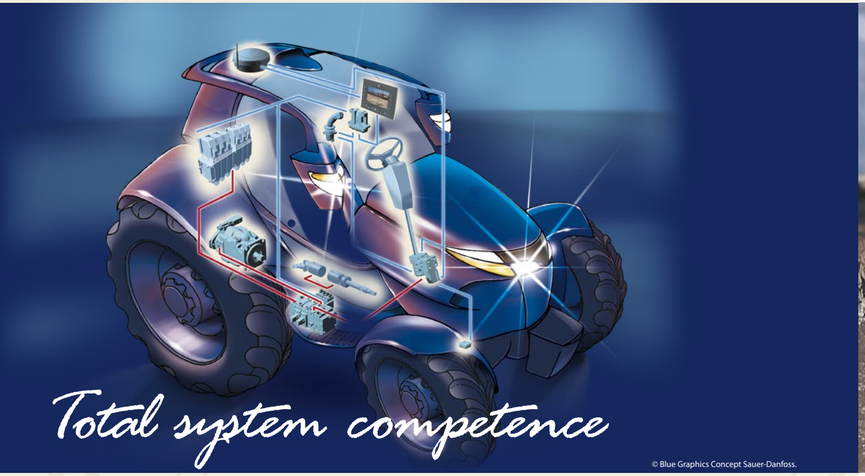
# *Sauer-Danfoss Graphical Terminals*

## *The CAN gateway for your mobile machine*

SAUER DANFOSS
*What really matters is inside®*

# Sauer-Danfoss Graphical Terminals

## Functional Flexibility or Flexible Functionality?

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We can think of two combinations of words that briefly summarize what the new Sauer-Danfoss graphical terminals are all about: Functional flexibility and flexible functionality. We prefer not to choose one combination over the other, though.

Our range of graphical terminals includes the DP600 series, which offers practically anything from anti-glare screen, two video inputs, and RS-232 connections to an external navigation button interface. The DP200 series features a front USB 2.0 port with mini-B connector, Plug and Perform® capability with standard Engine Information Center (EIC), J1939 software, and additional multifunctional inputs. Functional flexibility or flexible functionality? In our view, Sauer-Danfoss graphical terminals offer both. Read on and make your own decision.

*Transflective TFT and DSTN, LCD display technologies for exceptional legibility, from darkness to bright sunlight.*

*Built-in, real-time clock enabling you to log data and track operating hours on rental machines.*

*Rugged, shock resistant design offering maximum protection against dust, moisture, and rain.*

*Powerful 32-bit microprocessor, providing smooth, realistic, and flicker-free movements of gages and readouts on the terminal screen.*

*CAN 2.0B ports, enabling communication using different CAN bus protocols, including J1939 and CANopen, for maximum design flexibility and customized monitoring and control systems.*

*USB 2.0 port, provides a gateway function from the CAN network to PC-based service tools.*

*PLUS+1™ GUIDE programmable, for easy configuration of screens and button functions. GUIDE also allows for quick software updates that accommodate new features, new models, and different languages.*

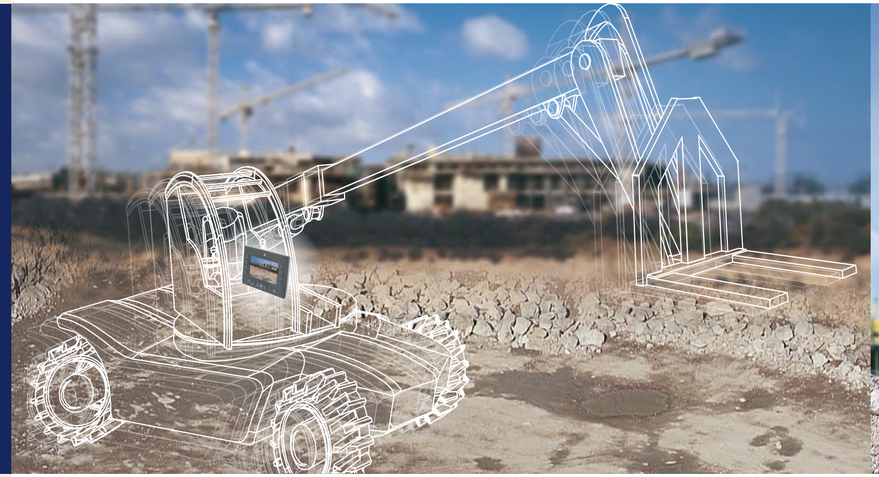
# DP600 Series

**Highlights:**

*TFT functionality for optimal legibility*

*High resolution display for accurate images*

*Dual camera inputs utilizing standard composite video signal*



PLUS+1 COMPLIANT

### DP600 Series Graphical Terminals

The Sauer-Danfoss DP600 series of PLUS+1™ compliant graphical terminals have been designed specifically to meet the increasing demands of electronic system control and monitoring. Intended for high-end applications, these sophisticated graphical terminals provide optimal performance and flexibility for OEMs.

Features include transflective TFT and DSTN, LCD display technologies, high resolution display, anti-glare screen and sensor controlled backlighting, ensuring optimal legibility under all ambient light conditions, and CAN, RS-232 and USB interfaces, for all control system updates and diagnostics. The DP600 series is also able to receive dual camera inputs utilizing a standard PAL video signal.

*CAN, RS-232, and USB interfaces enable control system diagnostics and service data management.*

*Additional inputs for an external navigation button, which enables you to maneuver through all terminal functions. To secure maximum safety, you determine where and how the navigation button is mounted, for example in the armrest.*

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*Optional full virtual terminal functionality that meets the ISO 11783 electronic communications protocol for agricultural equipment.*

*Anti-glare display screen and sensor controlled backlight levels providing superior visibility under all operating conditions, regardless of whether the terminal is freestanding or dash-mounted.*

*Video option allowing the DP600 Series to display input from two standard composite video observation cameras.*

*High-brightness LED and digital alarm output alerting the operator in case of system irregularities.*

*Gore™ membrane vent that keeps moisture from fogging the terminal screen.*

# DP200 Series

**Highlights:**

*Replaces conventional dashboard instrumentation*

*Provides OEMs with additional design flexibility*

*Improved information and comfort for the end-user*

### DP200 Series Graphical Terminals

The Sauer-Danfoss DP200 series of PLUS+1™ compliant graphical terminals provide high quality performance solutions to fit the needs of today's mobile machines. Designed as a cost effective alternative to existing analogue gages, these high-resolution monochrome displays fit every budget without compromising performance.

The DP200 series comprises multiple hardware and software options featuring front USB 2.0 port for easy connection to PC-based service and diagnostic tools, extended IO for improved input design flexibility, real-time clock, display heater and Plug and Perform® capability with Engine Information Center (EIC), J1939 software.

PLUS+1 COMPLIANT

*Front USB 2.0 port with mini-B connector, providing an easily accessible gateway function from the CAN network to PC-based service tools.*

*Wide voltage range, 9-63 Vdc, enables one display to be used with different applications.*

*Easy installation with a dashboard sealing and mounting bracket included with the DP200 package.*

*Monochrome transflective LCD screen with 32 grayscales, gives more shadow options between black and white, and integrated backlight for use in all lighting conditions.*

*Plug and Perform® capability with standard Engine Information Center (EIC), J1939 software, offers a high degree of flexibility for display configuration without the need for additional programming, or software tools.*

*Multi-functional inputs, which allows analogue, digital, frequency or rheostat data to be read. This provides increased input design flexibility and enables multiple sensor types to be connected.*

*Display heater enables the DP200 to withstand the harshest of operating environments, coping with extreme temperature conditions from -40 °C to +70 °C.*