

Technicalinformation

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PC Recommendations for DairyPlan C21

DairyPlan C21 with DMS 21 Gateway for herd management PC (HM PC)

Description

To ensure that a new PC will meet current requirements and those probable in the near future, please note the following recommendations.

These recommendations are also the minimum requirements for running future versions of DairyPlan.

Computer requirements (from DairyPlan Version C21)

Supported operating systems:

- Microsoft Windows 7 Professional
- Microsoft Windows 10 Professional

DP management computer hardware

Processor:	x86 architecture Intel® Core i 5 or faster			
Processor speed:	2,8 GHz			
RAM ⁰):	2 GB (Windows 32 Bit) 4 GB (Windows 64 Bit)			
Graphics:	XGA (1024 x 768 Pixel) SXVGA (1280 x 960 Pixel)			
Interfaces:	external	internal		
	Optional 1x RS232 >=4x USB >=2.0	Multiport PCI		
	Ethernet (>=100 Mbit)			
	Audio: "on-board", PCI plug-in card or USB interface, Soundblaster-compatible			
Drives:	1 standard DVD ROM			
	free capacity required for DairyPlan 500 MB (up to 1000 animals) +100 MB (for each further 1000 animals)			
Hard disk:		urther 1000 animals)		
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Separate IP address ranges must be used if there are several network cards. The standard IP address range for DairyPlan component is the IP range 192.168.1.x. The DMS 21 Gateway is pre-set to the address x.x.x.240. Contact the PC specialists or dealer if necessary.

DPView Terminal

	IPC (industrial PC)	Stand-alone touchscreen		
Operating system:	Windows XP(emb), Windows 7, 10	Software driver		
Monitor:	15" XGA Touchscreen	15" XGA Touchscreen		
Processor speed:	1,4 GHz			
RAM:	1 GB			
Drives:	internal Flash/HDD external DVD (USB)			
Network:	Ethernet 100 Mbit/s			
Protection class:	IP65, no openings on the			
Temperature:	front 0 to 40 degrees Celsius			
Power supply voltage:	120/240 V AC or 24 V DC in the milking parlour			

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Note This industrial PC is not suitable for QView/MView. A special IPC, which can only be obtained directly from GEA, is required for DPQ (QView) or Monobox (Mview).

7801-2376-100 PC with 21.5" touchscreen, without mounting bracket

Operating system:	Windows 7E			
Monitor:	LCD TFT 21,5" – 1920x1080 – Standard LED Backlight Resistive touch-screen, 5 wires			
Microprocessor:	Intel Celeron J1900 – 2,00 GHz			
RAM:				
Drives:	SSD drive 64GB 2,5" SATA MLC			
Network:	2 x Ethernet 10/100/1000Mbps; 1 x RS232; 4 x USB			
Protection class:	2 IP65 interfaces at the rear			
Temperature:	0 to 40 degrees Celsius			
Power supply voltage:	24 V DC 1			
Housing:	as per GEA Farm Technologies GmbH specifications			
Buzzer/loudspeaker:	installed inside the unit			
	Interface for switching on with a simultaneous double-touch.			

PC Recommendations for DairyPlan C21

System software for DairyPlan C 21

Operating system:

- Microsoft Windows 7 Professional
- Microsoft Windows 10 Professional

Note

With 64-bit systems, note the restriction of available interfaces!

Attention!

Windows® Server versions are not supported as an operating system for DairyPlan.

Interfaces

Attention!

Always observe the following "Slots" table when selecting operating system and interface cards!

Com ports/PCI slots/network cards, number of devices to be connected

	Туре	Connection	Interfaces	Comments
1	Oneport-Set	COM / RS232	1 * VC4/3	
2	DPNet-A	USB	1 * DPNet-A	driver only for 32-bit Windows® XP / Vista / 7, 8 & 10
3	DMS21-Gateway	Ethernet	1 * DPNet-A 3 * DPNet-B 3 * VC4/3	no driver necessary
4	USB-Multiport	USB	4* VC4/3	drivers are loaded at Windows updates or included on the DairyPlan CD as from DP Version 5.284.

The drivers for the PCI interface cards and USB adapters mentioned above are not signed! A warning will therefore appear when installing the drivers. Acknowledge the warning and continue with the installation.

Recommended hardware and software settings

Automatic restart

The computer's power supply and BIOS must be configured so that an automatic restart is carried out after a power failure, and all of the processes necessary to control the installation can start.

if feeding is activated via DairyPlan, the start process should not be stopped by having to ask for a password (registry key AutoAdminLogon). ⁴)

This can represent a major security flaw in the system.}

To control feeding, DairyPlan process control must be started automatically via the "Autostart" folder or by an entry in the registry. ⁵)

DPNetInstall and Port 2036 (UDP) should be allowed in any existing firewall.

- ⁴) HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\WindowsNT\CurrentVersion\Winlogon
- ⁵) HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run

Operating systems Windows® Windows 7 / Windows 10

Certain authorizations are required to install DairyPlan.

A user set up in Windows 7/10 only has these authorizations if he is a member of the administrators group.

A user must have the following rights:

- Access to the DVD-ROM drive
- Hardware installation and driver installation
- Program installation, in particular to:
 - Create directories on the local hard drive
 - Create / Copy / Delete files
 - Create / Edit / Delete entries in the Windows Registry
 - Create / Edit / Delete links in the start menu / on the desktop

Some of the DairyPlan functions are inhibited by the user account control (see TI 1099 / June 2007: DP and Vista). This also applies to Windows 7 Professional and Windows 10 Professional.

To install DairyPlan, display the CD's main directory in Windows Explorer.

Click right on Setup.exe to open the Context menu and then click on "Run as Administrator". This will ensure that the necessary rights are available for the installation and problems of this kind will be avoided.

Some program functions may be blocked depending on the settings of the operating system safety rules, particularly for DPNetInstall, DPProcessControl and DPService. We recommend starting these 3 programs directly from the DairyPlan folder "as administrator" after installation to avoid subsequent error messages.

General recommendations

Hardware/Software

- Use quality components to increase reliability against failures.
- Use branded memory modules because DairyPlan uses RAM extensively. Defective memory modules will cause problems running DairyPlan!
- If possible, select a system with mirrored disks (RAID 1).
- Motherboards with ECC RAM (Error Correction Code) support are another way of increasing reliability.

Backup

Attention!

If data backups are performed correctly there will be several different storage media which are alternated on a regular basis so that if one medium should fail there will still be another backup available.

Note the limitations of storage media with regard to maximum service life, data security and maximum number of read/write processes!

The following storage media / backup strategies are suitable for data backups:

- USB memory stick or similar Flash drive based medium These can be used to back up and transport data. Change USB sticks regularly or copy data from the USB stick to another computer.
- CD/DVD burner as a backup drive These can be used if they are incorporated in an automatic procedure.
 If creating a CD manually, data losses might occur between two burning processes.
- Network

If the computer is connected to a network the data can then also be stored on another computer in the network.

Operations

Do not keep the backup media in the same room/house as the computer with the data.

Preferably contact a competent local dealer instead of using a mail order business that doesn't offer service. Help can then be obtained quickly in the event of a fault.

Provide surge voltage and lightning protection, particularly in rural areas, and set up a constant power supply voltage.

Frequent installation and uninstallation of other programs (e.g. games) will adversely affect the safety and stability of the system. This can also have a negative effect on working with DairyPlan and on data security!

Corresponding manual

