

# User Manual

Terminals VMT6010/6012/6015



# Product Portfolio

Tablet PCs	IT infrastructure
Terminals	Industrial PCs

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# ABOUTUS

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As a supplier of high tech equipment, ads-tec supports large enterprises and globally operating groups of companies with state-of-the-art technology, know how that is always up to date and delivery of comprehensive services in the area of automation, data and system technology.



ads-tec puts entire solutions for automation into practice - from the planning to the commissioning - and has particularly specialised in manipulation and material manipulation technology.



The Data Technology division develops and manufactures PC based solutions and holds a wide range of industrial PCs, thin clients and embedded systems available.



ads-tec has specialised in the adaptation and optimisation of operational systems and develops software tools to complement the offered hardware platforms.



# 1 REMARKS

#### **1.1** RELEVANT DOCUMENTATION FOR THE DEVICE

The following documents are essential for setting up and operating this device:

#### USER MANUAL (THIS DOCUMENTATION):

Contains information for installation, commissioning and operating the device along with technical data of the device hardware.

#### WEBSITE

By using the website <u>www.ads-tec.de</u>, you can download drivers, software, user manuals, leaflets and flyers from the **Download** section on the website.



#### Note:

We would recommend to make use of our website contents (www.ads-tec.de) in order to ensure an optimised data quality and to be quickly and comprehensively informed of any technical modification.

#### SERVICE CD:

Contains drivers and user manuals.



# Note:

The service CD menu automatically starts if the autostart option for removable media is activated.

The service CD was created by using Adobe Flash. The service CD menu is even available if the Flash Player is not installed.

### **1.2 EXPLANATION OF USED SYMBOLS**



#### Warning:

The "Warning" symbol refers to activities which could cause personal injury or damage to the hardware and software!



### Note:

The "Note" symbol describes conditions which unconditionally have to be observed in order to ensure trouble-free operation. Additionally, hints and advice for the efficient use of this device and for software optimisation are given using this symbol.

# **1.3 DATA, FIGURES AND MODIFICATION**

All texts, data and figures are non-binding. All these materials are subject to modification due to technological progress. Our products comply with all provisions and requirements of the legislation at that point in time when the products leave our company premises. The operator/operating company bears sole responsibility for the compliance with any consecutive new technological development or adherence to any consecutive new legislatory provision, as well as for the observance of their obligation as the operator/operating company.



### 1.4 TRADE MARKS

We would like to emphasise that all names of hardware and software products used in this documentation, as well as all brand names of corresponding companies are subject to the general copyrights of the intellectual property in terms of trademarks, brand names and patents.

Windows<sup>®</sup>, Windows<sup>®</sup> CE are registered trademarks of Microsoft Corp.
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RITTAL<sup>®</sup> is a registered trademark of Rittal Werk Rudolf Loh GmbH & Co. KG.

Any other national and international trademarks and product names shall hereby also be recognised.

# **1.5 COPYRIGHTS**

This manual including all contained figures is protected by copyright law. Any use of this manual by a third party in non-compliance with the international copyright law shall hereby be prohibited. Any reproduction, translation and electronic or photographic archiving or modification requires previous written agreement by ads-tec GmbH.

In the event of non-compliance, you shall be obliged to compensate for damages.



# **1.6 ENVIRONMENTAL CONDITIONS**

The device may be operated under the following conditions. Failure to observe these specifications will terminate any warranty for this device. Ads-tec cannot be held liable for any damages arising due to improper use and handling.

• Temperature for devices without a heater

in operation	-20 55°C
for storage	-30 60°C

 Temperature for devices including a heater in operation -30 ... 55°C

for storage	-30 60°C

<ul> <li>Humidity:</li> </ul>	
In operation	10 85% without condensate
For storage	10 85% without condensate

•	Vibration resistance	
	Standard	EN 60068-2-6 / 1 G, 10 150 Hz
	Additionally applies	MIL-STD 810F (01.2000), annex C., figure 514.5C
		(US highway truck transportation)

Shock resistance
 Standard EN 60068-2-27 / 5 G, with a half-wave of 11 ms duration



### 1.7 STANDARDS

This device complies with the requirements and protective aims of the following EC regulations:

- This device meets the test requirements for granting the CE sign according to the European test standards EN 61000-6-4 and EN 61000-6-2.
- This device complies with the test requirements in accordance with DIN EN 60950 (VDE0805, IEC950) "Safety of Information Technology Equipment"
- The device meets the DIN EN 60068-2-6 test requirements (sinus excitation).
- The device meets the DIN EN 60068-2-27 test requirements (shock resistance test).



# Note:

All connected components, as well as cable connections must also meet these requirements for compliance with the EMC legislation. For this reason, screened bus and LAN cables including screened connectors must be used and installed according to the instructions in this user manual.



#### Note:

By using the CE conformity declaration in this document, you can find detailed information about the standards applicable to this device.



### Warning:

This is equipment of class A. This unit might cause radio interferences in living areas; in this case the operator might be obliged to take suitable protective measures at the operator's expense."



# **1.8 EQUIPMENT VERSIONS**

The system is available in two equipment versions:

Platform including a Flash SSD:

Platform without any rotating mass storage medium (hard disc, etc.) and with an embedded operating system (Windows CE 6.0 / XP embedded) for stationary use with a standard Ethernet or with radio networking cards installed on moving commissioning / forklift equipment.

Platform including a hard disc:

Equipped with a hard disc for stationary use, e.g. in the manufacturing department using a standard operating system.

#### **1.9** SCOPE OF DELIVERY

Please check that all of the following components are contained in the packaging:

- 1 x device
- 4-pin Lead-through connector from Phoenix Contact, COMBICON MC 1,5/4-STF3.81
- Service CD
- Protective covers

#### Optional delivery scope

- Operating system
- Installation kit



# **2** OPERATING INSTRUCTIONS

This device contains electrical voltages and extremely sensitive components. The manufacturer, or a service partner authorised by the manufacturer, should be consulted if you plan to make any modifications. For this type of work, the device must be switched off at the mains and the power lead must be disconnected. Suitable measures for avoiding electrostatic discharge towards parts of the components when touching the equipment must be taken. If the device is opened by an unauthorised person, hazards for the user might arise and any warranty claim will cease.

#### General instructions:

- All users must read this manual and have access to it at all times.
- Installation, commissioning and operation may only be carried out by trained and qualified staff.
- The security instructions and the manual itself must be observed by all persons who work with this device.
- At the location of use the valid guidelines and regulations for accident prevention must be observed.
- The manual contains the most important instructions on how to use this device in a safe way.
- Appropriate storage, proper transport, installation and commissioning, as well as careful operation are prerequisites for ensuring safe and proper operation of the device.
- The device can be cleaned by using a soft cloth and a commercially available glass cleaning agent (e.g. Sidolin) with low alcohol content.



#### Warning:

Any leads (e.g. power leads, interface cables) may only be connected if the device is switched off in order to avoid damaging the device.

### 2.1 **OPERATING LOCATION**

The VMT control system is designed for use on support arm systems or on moving transport equipment (like commissioning trolleys, forklifts or similar). You have to take care that the environmental conditions specified in the technical data specification are met. Using the device in non-specified environments, for example on board ships, or in areas that might contain explosive gases or in extreme heights is prohibited.



#### Warning:

The device may only be switched on after acclimatising to the ambient temperature in order to avoid condensate accumulation. The same applies if the device has previously been exposed to extreme temperature variations.

To avoid overheating in operation: The device must not be exposed to direct radiation by sunlight or any other light or heat source.





#### 2.2 DAMAGE DUE TO IMPROPER USE

If the control system shows any obvious damage, e.g. caused by improper operating or storage conditions or by improper use or handling, you must immediately put the device out of operation and protect it from being accidentally switched on.

#### 2.3 WARRANTY / REPAIR

During the warranty period, any repair must be carried out by the manufacturer or by persons duly authorised by the manufacturer only.

#### 2.4 TREATMENT AND DISPOSAL OF LITHIUM BATTERIES

This device contains a lithium battery for supplying the system clock with power as long as the supply voltage is not connected. The battery has a life cycle of 3 - 5 years depending on which load is applied.



#### Note:

The more the battery is exposed to higher temperatures, the faster it ages.



#### Warning:

There is an acute risk of explosion should the wrong type of battery be used.



#### Warning:

Do not put lithium batteries into a fire, do not solder on the cell body, do not recharge them, open them, short-circuit them, do not reverse their polarity or heat them up over 100°C; dispose of them properly and protect lithium batteries from direct sun light, humidity and condensation.

Lithium batteries may only be replaced by the same type, or by a type recommended by the manufacturer.

The lithium battery must be disposed of according to the local legislation at the end of its life cycle.



### 2.5 NOTES ON SAFETY



#### Warning:

Installation works at the device are only permitted if the device is disconnected from the power supply and protected from accidental switch-on.



#### Note:

Always adhere to the safety measures applicable when handling components at risk of being destructed by electrostatic discharges.

(EN 61340-5-1 / EN 61340-5-2)



# **3** INSTALLATION



### 3.1 EXTERNAL DEVICE DIMENSIONS VMT6010





### **3.2 EXTERNAL DEVICE DIMENSIONS VMT6012**





#### 3.3 EXTERNAL DEVICE DIMENSIONS VMT6015





# 4 COMMISSIONING

The power supply connection and interfaces of this device are installed underneath a protective cover. This cover has to be removed in order to connect the power supply lead and the interface cables.

All supply leads and all required data leads have to be connected before commissioning. All supply leads and all required data leads have to be connected before commissioning.



### Warning:

The device must be switched off before connecting or disconnecting any cables in order to prevent damage to the electronics!

The device may only be switched on after acclimatising to the ambient temperature in order to avoid condensate accumulation. Make sure to meet the permissible voltage requirements for this device.

After switching off and before switching on you must wait for at least 5 seconds.



#### Note:

The screen of a data cable must always be connected with the connector housing (EMC). Under the embedded operating system, interfaces must explicitly be enabled and required drivers must be installed in order to be able to use them.

# 4.1 AVAILABLE INTERFACES



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# Note:

If the case is connected with earth potential at the provided PE contact (e.g. by connecting the PE contact with the device plug), the electrical insulation is no longer given. This also applies if the device is installed by using a metal retainer clip. If you want to have the device electrically insulated from the power supply, you have to use a method of installation that ensures appropriate insulation.

# 4.2 ORDER OF STEPS DURING COMMISSIONING

#### **REMOVING THE LID FROM THE SERVICE SLOT**

Loosen the undetachable screws on the service slot cover by using a Torx Tx10 wrench and subsequently remove the service slot cover from the device.



#### **CONNECTING THE CABLES**

Please connect all required cables. Use grommets in this case, in order to install the cables correctly and to avoid any potential damage to the cables.



### Note:

A cable installation kit, which includes grommets for several cable diameters, is available as an option.







# Warning:

The indicated protection class is only fully guaranteed if the case cover is correctly installed!

### 4.3 CHECK FOR OPERATIONAL READINESS

Check the device for any hidden damage potentially caused by improper transport, operating or storage conditions or by improper use or handling (e.g. smoke development from the device, etc.). If any damage is detected, the device must be put out of service immediately and protected from accidental switch-on.



# 5 OPERATION

### **5.1** FRONT CONTROL KEYS



#### VERSION 1 (STATE UNTIL Q1/2010)



ON / OFF pushbutton of the device (ATX functionality) The operating system is shut down, but the device is not disconnected from the input voltage.

Depending on the actual equipment version, each device is equipped with an operating system (Windows CE 6.0, Windows XP embedded or Windows XP Professional) ex works, and a soft keyboard is installed. The keys on the front panel are pre-allocated with the following functions by a specific driver in the soft keyboard:



#### Level 1:

Activate and deactivate the soft keyboard for letter/character input by using the touch screen.

Level 2:

Increase the volume of the internal speakers



Level 1:

Change task (Alt+ESC) in Windows.

Level 2:

Decrease the volume of the internal speakers.



Level 1:

Not allocated. The configuration of this level can be customised by programming via the soft keyboard programme

Level 2:

Increase display brightness.



Level 1:

Right mouse-key function.



#### Level 2:

Decrease display brightness.



Shift key (SHIFT) for activating the second keyboard level. This key must be pressed simultaneously with the desired function key.

# Note:

If the software keyboard is not installed, only the functions for display settings and volume control are active. When changing the values, no representation is visible on the screen. The key functions can have been previously modified in accordance with customer specific requirements. The above described functions are pre-set ex works.

# VERSION 2 (STATE FROM Q2/2010)



ON / OFF pushbutton of the device (ATX functionality) The operating system is shut down, but the device is not disconnected from the input voltage.

Depending on the actual equipment version, each device is equipped with an operating system (Windows CE 6.0, Windows XP embedded or Windows XP Professional) ex works, and a soft keyboard is installed. The keys on the front panel are pre-allocated with the following functions by a specific driver in the soft keyboard:



# Level 1:

Activate and deactivate the soft keyboard for letter/character input by using the touch screen.

Level 2:

Decrease display brightness.



Level 1:

Change task (Alt+ESC) in Windows.



Increase display brightness.



# Level 1:

Not allocated. The configuration of this level can be customised by programming via the soft keyboard programme

Level 2:

Decrease the volume of the internal speakers.



Level 1: Right mouse-key function.

Level 2:

Increase the volume of the internal speakers





Shift key (SHIFT) for activating the second keyboard level. This key must be pressed simultaneously with the desired function key.



# Note:

If the software keyboard is not installed, only the functions for display settings and volume control are active. When changing the values, no representation is visible on the screen. The key functions can have been previously modified in accordance with customer specific requirements. The above described functions are pre-set ex works.



# 5.2 SOFT KEYBOARD

If an operating system is installed ex works, the soft keyboard is also preinstalled. If the operating system is delivered separately with the device, the soft keyboard must also be installed on site. By using the soft keyboard, data can be entered via the touch screen like with an external keyboard.



Esc	F1	F2	F3	Fr		F5	F6	F7	F8	F9	F10	F1	1 F12	Druck Roll Pause
	1	2 ;	3	4	5	6	7	8	9	•]	ß	•	<b>⊢</b> )	Einfg Pos1 Bild
[ ↓ ↓	٩	W	e	r	t	z	u	L	$\bigcirc$	q	ü	+		Entf Ende Bild
<u>ن</u>	a	S	d	f	g	h	J	k	I	ö	ä	#		
Û.	$\overline{)}$	<u>,</u> ],		• ] ·		b [	n ] [ I	n [			-]	}		t 3.11
Strg	Alt											AltG	r)Strg	



#### HOW TO OPERATE THE SOFT KEYBOARD FROM VERSION 3.11:

میں ABC	Activate and deactivate the soft keyboard for letter/character input using the touch screen
Num	Switches numeric keys on and off (only if numeric keys are visible)
>>	Switching between different representations (Alphanumeric keys $\rightarrow$ Numeric keys $\rightarrow$ Function key bar)
্	Soft keyboard representation, zoom in
्	Soft keyboard representation, zoom out



# Note:

If a function is to be activated which requires pressing two keys at the same time (e.g. Alt + F4), these keys have to be pushed one after another at the soft keyboard, and the special keys Shift, Alt and Ctrl must always be pushed first.

Due to differences in programming of a large variety of software programmes, we cannot ensure that the soft keyboard works properly with all available software.

When deactivating the soft keyboard, the previously active state (alphanumeric / numeric keys or function keys) will be stored and will be displayed when re-activating the keyboard.

### 5.3 TOUCH SCREEN

The control system is equipped with a touch screen monitor. The touch screen monitor is internally connected with the USB interface. The driver software required for using the touch screen is integrated in the corresponding operating system, or can alternatively be installed from the enclosed service CD.



# 5.4 STATUS INDICATORS

# SYS LED (BICOLOURED)

Depending on the colour and type of flashing, different device states are displayed by the SYS LED.



The following signals are displayed:

SYSTEM LED INDICATORS	DISPLAY BEHAVIOUR	DESCRIPTION		
<b>b</b>	Static	Device is connected with a power source and switched on.		
	Flashing	Volume / display brightness is being modified		
<b>b</b>	Static	Minimum / maximum value for volume / display brightness is reached.		
LIGHT SENSOR	Static	Brightness adaptation depending on		

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	the received light intensity with
	automatic setting

### 5.5 **RFID** READER (AS AN OPTION)

By using the RFID reader, passive RFID TAGS (RFID chip / key card) are available for automatic system login. The user applies the RFID tag like a key and requires neither user name nor password.

For authentication, the key card or the RFID chip are held in front of the position highlighted in the figure. The information from your key card or RFID chip is read and evaluated by the device. This way, access rights of persons, e.g. with respect to a certain work area or job can be controlled.

The Mifare technology is used in the VMT6000 series devices. The frequency used in this case is 13.56 MHz.



(RFID chip authentication)



#### ADS-TEC RFID-READER TOOL

The RFID reader can be controlled via the integrated "ads-tec RFID-Reader" software. The application communicates with the RFID reader of the VMT6000 series device via the serial interface. This application is configured automatically, i.e. when the program is started, all COM ports are searched for the serial interface of the RFID reader.



If the RFID reader was located, a figure showing in front of which area the key card / RFID chip must be held is displayed.



Once the authentication succeeded, the serial numbers received will be output.





If no RFID reader was located, a message is output.

🞑 ads-tec RFID Reader	
	Such nach RFID Lesegerät Kein RFID Lesegerät gefunden!
	adstec

This application supports German and English as languages. You can change the language via the "Rfid.ini" file by entering either "Language Id = DE" or "Language Id = EN".

# 6 INTERFACES

# 6.1 INTERFACE SETUP

INTERFACE	IRQ	ADRESS
COM1	4	3F8h
COM2 (Touch)	3	2F8h

# 6.2 24V DC POWER SUPPLY

The supply voltage is provided via a lead-through terminal including a screw connection (Phoenix Contact COMBICON MC 1,5/4-STF3.81). (The figure shows the socket inside the device)

PIN-NUMBER	SIGNAL NAME	1234
1	PE	
2	0V DC	
3	Ignition contact	
4	24V DC	

Voltage tolerance

• Input voltage: 24 V DC ± 20%.

### Current consumption

The current consumption of this device depends on the equipment version (e.g. if a heater or WLAN, etc. is installed.)

- Switch-on current: 7A (1ms)
- Standby current consumption: 0.25mA
- Regular operation: 1.3A without heater (without any additional load on the USB ports and without delivering the +5V supply for the scanner)



### Note:

The power supply can be protected with a slow-blow fuse of up to 4A.



#### Note:

The typical power consumption of this device is indicated in the "Technical details" chapter.





Note:

If the case is connected with earth potential at the provided PE contact (e.g. by connecting the PE contact with the device plug), the electrical insulation is no longer given. This also applies if the device is installed by using a metal retainer clip. If you want to have the device electrically insulated from the power supply, you have to use a method of installation that ensures appropriate insulation.

#### How to proceed if a PE system is used:

You must adhere to the following figure in order to ensure a correct installation of the PE system.



#### **IGNITION FUNCTION**

The device is capable of being externally started by using an additional signal input. This function is well known from the automotive industry (switch-on by using an ignition contact). The device is here continuously supplied with a 24 V DC power supply, and only if the additional signal is present at the ignition contact, e.g. as a result of turning the ignition key of the forklift, the computer is switched on or the blocking is released. This function protects the system from unauthorised use, and saves energy by using the battery of the vehicle only in connection with the vehicle being used, at the same time, if the device is installed onboard of vehicles or other mobile and battery driven equipment. This function can be configured by using the Ignition Key Locking software tool. It allows you, for instance, to shut down the computer after expiry of a timer once the voltage is longer the ignition no present at contact. Preassembled supply cables that allow the use of this ignition function are available from ads-tec.



#### Note:

Switching the device ON or OFF by using the Power button will override the ignition function. That means, if the device is switched off by using the Power button, the system is shut down and can be restarted by using the Power switch after that, but can then also be restarted by using the ON/OFF function of the ignition.





# Warning:

The ignition signal works with a threshold value of 5V DC. The voltage must never exceed the maximum voltage of 36 V DC! Risk of destruction!

Do not use the device onboard of vehicles with more than 24 V DC system voltage without any voltage adaptation for the ignition contact! Risk of destruction!



#### Note:

The ignition function must never be used together with the autostart function, at the same time!



#### Note:

The ignition function is available with most operating systems.

### 6.3 AUTOSTART FUNCTION

The autostart function allows the automatic start-up of the device upon application of the supply voltage of 24 V DC.



#### Note:

The Autostart switch in the service slot must be set to **ON** in order to use this function.



#### 6.4 SPEAKERS

The VMT 60xx has two internal speakers.





### Note:

The volume can be set up by using the device front keys. When activating the described key combinations, the volume level is modified. If the **soft keyboard** is installed, the system volume is additionally displayed by a display bar.

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### 6.5 USB CONNECTIONS

The USB interfaces are used for connecting peripherals with USB connection. These interfaces comply with the USB 2.0 standard requirements.

PIN-NUMBER	SIGNAL NAME	
1	VDC	
2	D -	
3	D+	
4	GND	



### Note:

The device supports a maximum of 8 external USB mass storage devices. If a USB Flash SSD is integrated, a maximum of 7 USB mass storage devices can be connected.



### Note:

The USB interfaces can be individually locked by using the "Lock USB" software tool.

#### **USB** CONNECTION IN THE FRONT PANEL

One USB interface can be accessed from the front. The interface is located under a plastic cover underneath the display. The cover has a tab on the right-hand side, which is used for opening. The plastic cover of the USB interface must be returned in protective position after use.



### 6.6 PS/2 CONNECTOR

A keyboard can directly be operated by using the PS/2 socket connector.

PIN-NUMBER	SIGNAL NAME	//
1	Keyboard Data	<u> </u>
2	Maus Data	
3	GND	
4	+5V	
5	Keyboard Clock	
6	Maus Clock	



#### Note:

Since the timing of the integrated controller is specifically set up for cherry keyboards, keyboards of this manufacturer should preferably be used.

If the soft keyboard is actively displayed on the monitor, the use of the external keyboard for control purposes is limited.

The keyboard must be connected before switching the device on, because the keyboard interface is initialised in the process of booting. If the keyboard is plugged in while the device is running without having had the keyboard connected while booting, it will not be functional.



# 6.7 NETWORK CONNECTION (RJ45)

If the drivers required for functioning are installed on the device, the control system may be integrated in an Ethernet network supporting the 10/100/1000Mbit standard by using the Ethernet 10/100/1000BaseT network connector. Specifications of this network topology must be observed in this case. You can install the drivers required for functioning from the enclosed service CD, should they not be installed on the device.

PIN-NUMBER	SIGNAL NAME	1 8
1	TX +	
2	TX -	
3	RX +	
4	NC	
5	NC	
6	RX -	
7	NC	
8	NC	



#### Note:

The device has two separately integrated network controllers of the Realtek RTL 8111c Family PCIe Gigabit Ethernet type.

<b>&gt;</b>
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# Note:

PXE booting is only possible by using the LAN1 port.



#### 6.8 OPTIONAL RADIO NETWORK CARD

The device is equipped with a Mini PCI Express WLAN card with two antennas integrated in the front panel.

The Mini PCI Express WLAN card supports the standards 802.11a/b/g.802.11b/g:11Mbit / 54Mbit, 2.4GHz802.11a:54MBit, 5GHz

Additionally, the following security standards are supported: WEP 64 bit, 128 bit 802.11i WPA TKIP, CCMP (AES) WPA2 TKIP, CCMP (AES) WPA PSK (preshared key) WPA enterprise: EAP-TLS

Specifications of this network topology must be observed in this case.



### Note:

As an option, this device can be equipped with an internal antenna and an external antenna connection (*R-SMA* connector).

In this case, the optimum WLAN function is only be ensured if an external antenna is connected.



#### Warning:

If an external antenna is used, which is not approved by ads-tec, the operator/operating company shall be responsible for compliance with the regulatory and legislatory requirements.



# 6.9 SERIAL COM INTERFACE (RS232)

The serial interface is used for digital data transmission. The RS232 interface can be connected by using a commercially available 9-pin SUB-D cable.

#### Note:

Pin 9 of the serial interface connector can be used for additional switching of a 5V power supply, e.g. for operating a serial barcode scanner. The **COM +5V** switch in the service slot of the device must be put in the **ON** position in order to use this function. A subsequent restart of the computer might be required in order to properly activate this function.

PIN-NUMBER	SIGNAL NAME
1	DCD
2	RxD
3	TxD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI oder + 5V DC (max. 1 A)





# Note:

This interface is not electrically isolated.



# 7 DRIVES

# 7.1 HARD DRIVE / FLASH SSD

The storage medium is selected according to the customer requirements. The following options are available for storage:

- Flash SSD: A Flash SSD with a storage capacity of at least 1GB is used. Its capacity depends on the desired operating system and the additional programmes to be installed.
- Hard disk: A 2.5" hard disk with at least 40 GB (UDMA) is used. On delivery, the hard disk is formatted in NTFS format (default for Windows XP).



# Note:

Recommendation for the choice of storage medium with a basic installation:

SSD Flash memory: Windows CE 6.0 / Windows XP embedded

Hard disk: Windows XP Professional

# 7.2 EXTERNAL DRIVES

By default, no drive for removable media (CD/floppy disk) is integrated in the device. Instead, the system provides a USB interface, to which an external drive can be connected. In this case you'd have to ensure that the used device is suitable for industrial environments.



### Warning:

Connecting or disconnecting external drives during operation is not admissible, since it cannot be excluded that the drive might be in use while connecting or disconnecting it. Data loss might result in the event of non-compliance!



# 8 SOFTWARE & DRIVER INSTALLATION

The device will be delivered with a pre-installed Windows / Linux operating system depending on what the customer wants. The drivers required for this are already installed and the operating system will be enabled by entering the licence information. Should an initial installation be required, please follow the following steps. With a newer operating system like Windows XP, the network card and graphics card will properly be recognised during the initial installation, so that only the touch screen driver and the soft keyboard must be installed separately.



### Note:

If the hard drive was formatted, the operating system can be reinstalled by using one of the existing interfaces. An external keyboard is required for installation.

# **8.1 INSTALLING THE OPERATING SYSTEM**

The device does not have any integrated CD drive. The installation of the operating system can therefore only be carried out by using the USB interface.

#### Procedure for installation:

- The boot drive in the system Bios must be switched to USB in order to boot the device from the USB interface.
- Restart the device and insert a Windows CD.
- Install Windows and set up the basic data.
- With devices including touch screens, the touch screen driver as well as the soft keyboard should be installed in order to ensure their full functionality.

With Windows CE 6.0 or Windows XP embedded, a complete image can also be installed by using a USB stick.



#### 8.2 TOUCH SCREEN DRIVER INSTALLATION



#### Note:

When installing the driver, you'll have to take in account that the touch screen monitor is internally connected with the USB interface!

Touch screen monitor and PS2 mouse can be operated simultaneously.

The installation has to be carried out as described below:

- Switch on PC and boot.
- Access the service CD by using the Explorer and start the Installer file in the TouchScreen folder.
- Follow the on-screen instructions and acknowledge the licence terms and conditions.
- Once the installer has completed the installation, shut down the computer and restart it subsequently.
- After restarting, the touch screen monitor has to be calibrated. If the driver does not automatically start, activate the setup menu via "Start => Settings => Control panel => Elo Touchscreen".
- Via the "Calibration data" menu, calibrating the touch screen monitor can be started, and the crosses appearing in a succession on the monitor have to be pushed for calibration. If the cursor position perfectly matches the touch point of your finger, you can exit this control menu by pushing "OK".



### 8.3 CONFIGURATION CENTER

#### **CONFIGURATION**

The start page of the Configuration Center provides you with an overview of which ads-tec applications are installed on the device. Additionally, you can start any of these applications from the Configuration Center by double-clicking on it.



#### INFORMATION

In the Information section, device specific data like the device type, the firmware version and the serial number are listed. The information you'll find here must be indicated whenever you need to contact the support department.



Note:



#### 8.4 AUTOMATIC BRIGHTNESS ADAPTATION



The application of **Automatic brightness adaptation** allows the user to configure the respective display brightness.

The display brightness can be changed manually, or alternatively automatically by enabling the **Automatic brightness adaptation**, which controls the brightness automatically depending on the ambient light level. Once the automatic brightness control is enabled, the brightness can no longer be modified by using the front keys.

We distinguish between two different control modes with the automatic control:

#### Day mode / Night mode

Separate display brightness levels can be programmed for either of both modes.

📧 Automatic brightnes	s control 🛛 🛛 🔀
Display Dimming	
🗌 Automatic display c	limming
Disp. Bright	tness for day mode: 100 %
Disp. Brightr	ness for night mode: 30 %
Operating Mode	
*	<del></del>
Night mode	Day mode
ОК	Cancel Apply



#### Note:

The threshold for Day-/Night mode has to be determined individually by the user for each device.





The day mode is enabled as soon as the ambient brightness is high enough. The display brightness should be set to a slightly higher level than at night.

The night mode is enabled if the ambient brightness level is low. The display brightness can be set to a lower level in this mode.

The operating mode of the automatic control can seamlessly be changed between day and night mode by using a slide control.

The closer the slider is to the day mode position, the darker the ambient light must be before the display brightness is changed to night mode. And vice versa: the closer the slider is put to the night mode position, the brighter the ambient light must be before the display brightness is increased to the value set up for the day mode.

In order to save the changes, you'll have to push either **Save** or **OK**.

#### 8.5 IGNITION

The ignition application allows the control of the VMT6 device ignition function. If the status is set to Enabled, the device is switched off after expiry of the preset period of time.

🚏 Ignition Key Locking 🛛 🛛 🔀
Status: Inaktiv Herunterfahren nach: 05 Min 00 Sek
Textanzeige auf dem Sperrbildschirm:
Das Gerät ist gesperrt! Zeit bis zum Herunterfahren:
OK Abbrechen Übernehmen



#### **8.6 USB LOCK FUNCTION**

The USB lock function enables you to lock the USB ports, if required, and to avoid access by unauthorised people.

#### MESSAGING

In the Messaging section, you can set up whether a message should be output in the event that a USB port is locked or not. Additionally, the locking process can be logged in the event log.

#### **PASSWORD PROTECTION**

In order to avoid any unauthorised access to the USB Lock programme, the settings made can be provided with password protection. In this case, the settings can only be modified if the password was entered correctly.

#### **USB** INTERFACES

The desired USB ports can individually be locked by using the **Lock** button.

😰 USB Lock	
Feedback	
Show message when usb de blocked.	vice was
Write message to event log device was blocked.	when usb
Password protection	
Activate password protection current settings.	n for the
Change password	
USB Ports	283
🗳 USB port rear outer	Lock
🎒 USB port rear inner	Lock
🔐 USB port front	Lock
OK Apply	Cancel

All changes must be confirmed with the **Save** button.



#### 8.7 ON / OFF PUSHBUTTON CONFIGURATION

The ON / OFF pushbutton configuration allows to change the behaviour of the ON / OFF pushbutton.



### **REGULAR MODE**

The ON / OFF pushbutton switched the device on and off.

G	Power Button Configuration
	Configuration
	Current setting: Normal Mode
	Description:
	Power Button can be used to turn the VMT6 on and off.
	Ok Apply Cancel

#### SECURE MODE

The ON / OFF pushbutton only switches the device on. The switch-off function is disabled.



# Note:

If the secure mode is used, the device can only be shut down by the software.



#### 8.8 EXEMPLARY RFID APPLICATION

The exemplary RFID application was developed in order to test the function of the RFID reader.



→
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#### Note:

*In the Interfaces section of the manual you can find more information about the topic of RFIDs.* 





#### 8.9 SOFT KEYBOARD

Here you can configure the soft keyboard application. A large variety of settings, like layout or commands can individually be adapted.

🚟 So	oftkeyboard				×
Ger	neral Layout Keys 8	Macro   Information			
	– Softkeyboard keybo	ard language	Colors		
	English (United King	gdom) 💌	Font & Shade	Keys	
	Auto detect lange	uage	Background Keys	Background	
	Sequences	Lock keys	Start up and close		
	Ctrl-Esc	🖂 Ctrl	Activate by mouse	not available	
	Ctrl-Alt-Del	🗖 Alt	Switch autologon	available 🔻	
	Alt-F4	🗖 AltGr			
	🔽 Alt-Tab		Softkeyboard position	in top of all other windows	
	Alt-Esc		Unlock when closing	not activated	
			L		
Re	store Defaults			DK <u>C</u> ancel Appl	y

All changes must be confirmed by pushing the **Save** button.

#### 8.10 SCREEN MOB

The Screen Mob application was developed in order to disable the touch screen of the device for a certain period of time. This function can be used for cleaning the touch screen.





#### **8.11 SOFT KEYBOARD INSTALLATION**

The soft keyboard must be installed from the enclosed service CD in order to ensure usability of the 5 keys (except for the VMT series, where you have 6 keys) underneath the monitor. The installation has to be carried out as described below:

- Plug in connector of external drive at the device
- Switch on PC, insert driver CD into drive after booting
- Start installer from the service CD
- Follow on-screen instructions, install the driver, select the language and confirm the restart of the computer.



#### Note:

You can make further changes to the basic settings of the soft keyboard, if required. More information about this topic you'll find in the "Readme" file in the installation folder for the soft keyboard!

# 9 TECHNICAL DETAILS

VMT6000- Series	6008	6010	6012	6015
Series				
Display Data			1	
Display	8" TFT, 800 x 480 Pixel	10,4" LED 1024 x 768 Pixel	12,1" TFT 800 x 600 Pixel	15,1" TFT 1024 x 768 Pixel
Represented Colours	max. 16,1 Mio. colours	max. 16,1 Mio. colours	max. 256K. colours	max. 16,1 Mio. colours
	Automatic o	r manual display brightr	ness adjustment	
TouchScreen		Resistive Indust	rial Touchscreen	
Computer Data				
Processor	Atom™ 1,1 GHz (Z510)		Atom™ 1,1 GHz Atom ™ 1,6 GHz	
RAM		1 GB oder 2 (	gb DDR2 RAM	
Chipset	Intel®	SCH US15W chipset in	cl. integrated graphic co	ntroller
Graphic memory		max. 8 N	1B shared	
Mass storage	2 x Fla (over interal U	sh SSD SB-Connection)	1 x Fla (over interal U 2,5" Automotive Hard 2,5" SSD P/	sh SSD SB-Connection) disk ≥ 40 GB (UDMA) ATA ≥ 2 GB
Interfaces	COM 1 1 x PS/2 (Key 2 x U Line 1 x Mi	(RS232) board /Mouse) SB 2.0 : Out ini PCI	COM 1 (RS232, cor supply for 1 x PS/2 (Mou 2 x US 1 x USB 2.0 in Front p	nnectable 5V power scanner) ise/Keyboard) 5B 2.0 panel (disconnectable)
Network		2 x Ethernet (10/1	00/1000MBit) RJ 45	

# Terminals VMT6010/6012/6015



General Data				
External Dimenions	254 x 182 x 62 mm	294 x 240 x 62 mm	338 x 261 x 62 mm	400 x 305 x 65 mm
Weight	ca. 2,1 kg	ca. 2,9 kg	ca. 3,3 kg	ca. 4,3 kg
Protection Class			IP65	
Max. Switch on current	1,8A	2A	2,3A	2,3A
Power consumption	43,2W	48W	55,2W	55,2W





# 10 SERVICE AND SUPPORT

ads-tec and its partner companies offer your customers a comprehensive service and support, which ensures availability of a fast and competent support with respect to all upcoming questions related to ads-tec products or assemblies.

Since the devices manufactured by ads-tec are also used by associate companies, these devices might be configured in customer specific ways. Should any questions arise with respect to these specific configurations and software installations, they can only be answered by the system manufacturer.

For devices not directly purchased from ads-tec we don't deliver any support. The support is delivered by our associate companies in these cases.

### **10.1** ADS-TEC SUPPORT

The ads-tec support team is available for phone calls from direct clients from Monday to Friday from

8:30 AM to 5:00 PM by using the following phone number:

Phone:	+49 711 45894-500
Fax:	+49 711 45894-990
Email:	mailbox@ads-tec.de

### **10.2 COMPANY ADDRESS**

ads-tec Automation Daten- und Systemtechnik GmbH Raiffeisenstraße 14 D-70771 Leinfelden-Echterdingen Germany

Phone:	+49 711 45894-0
Fax:	+49 711 45894-990
Email:	mailbox@ads-tec.de
Home page:	www.ads-tec.de



# 11 CE CONFORMITY DECLARATION

# <u>VMT6008</u>

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Hersteller / Adre	sse:	ads-tec	GmbH	Raiffeis	senstr.	14					
Manufacturer / Addr	ess:	70771 L	einfelde	n-Echtero	dingen	/ German	У				
Produktbeschrei	buna:	<b>VMT 60</b>	08 1	Modell / Mo	odel:	DVG-VN	T6008-	ххх-уу			
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Das oben besch The product of the of EU harmonisier EU harmonized Sta Angewandte ha ausgestattet ist: Harmonized standa Ort, Datum Place and date of Name und Unte Name and signal	riebene Produ declaration describ te Normen ndards rmonisierte No rds applied, if the d f issue erschrift ture	kt ist konform ed above is in d EN ( rmen, wenn above described EN ( EN ( EN (	n mit der sonformity 51000-6 das ober d product is 501 489 500 328 5 50950-1: -Echterd Elmar E Quality M	n Anforder with the requ 4:2007* I n beschrie s equipped w 1 V1.8.1; I V1.7.1 E 2006 + A1 ingen, 12/ Bossler fanager -	ungen ( uirements EN 610 bene Pr with WLA/ EN 301 EN 301 I1:2009	der folgen s of the follow 00-6-2:20 rodukt opt N communic 489-17 V 893 V1.4.	den Dok ving docur 05 ional mir ation optic 1.3.2 1	umente nents: t WLAN nal: Thomas : Busines	Kommu Kommu Mogerle	unikation UMu ata System	ns –
Das oben besch The product of the of EU harmonized standa Angewandte ha ausgestattet ist: Harmonized standa Ort, Datum Place and date of Name und Unter Name und Unte	riebene Produ declaration describ te Normen ndards rmonisierte No rds applied, if the o f issue erschrift ture	kt ist konform ed above is in d EN 6 rmen, wenn above described EN 1 EN 6 EN 1 EN 1 EN 1	n mit der sonformity 51000-6 das ober d product is 501 489 500 328 1 50950-1: -Echterd Elmar E Quality M nrichtung ka	n Anforder with the requ 4:2007* I n beschrie s equipped w 1 V1.8.1; I V1.7.1 E 2006 + A1 ingen, 12/ Bossler fanager - ann im Wohnber	ungen ( uirements EN 610 bene Pr with WLA/ EN 301 EN 301 11:2009	der folgen: s of the follow 00-6-2:20 rodukt opt N communic 489-17 V 893 V1.4.	den Dok ving docur 05 ional mir ation optic 1.3.2 1 1 	umente nents: t WLAN vnal: Thomas r Busines n diesem F	Kommu Kommu Mogerlé ss Unit D all kann vo	unikation UMu ata System m Betreiber v	ns –
Das oben besch The product of the of EU harmonisier EU harmonized Sta Angewandte ha ausgestattet ist: Harmonized standa Ort, Datum Place and date of Name und Unter Name und Unter Name and signal *Warningi – Dies ist *Warningi – This is a	riebene Produ declaration describ te Normen ndards rmonisierte No rds applied, if the o f issue erschrift ture eine Einrichtung der 1 dass A deviec. In a	kt ist konform ed above is in o EN 6 rmen, wenn above described EN 1 EN 6 EN 1 EN 6	n mit der sonformity 51000-6 das ober d product is 501 489 50950-1: -Echterdi Elmar E Quality N nrichtung ka sent this dev	n Anforder with the requ 4:2007* I n beschriel s equipped w 1 V1.8.1; I V1.7.1 E 2006 + A1 ingen, 12/ 3ossler fanager - ann im Wohnber	ungen ( uirements EN 610 bene Pr with WLA/ EN 301 EN 301 11:2009	der folgen s of the follow 00-6-2:20 rodukt opt N communic 489-17 V 893 V1.4. ) 0 0 	den Dok ving docur 05 ional mir ation optic 1.3.2 1  Manager rursachen; i erference, in	umente nents: t WLAN vnal: Thomas Busines n diesem F n which cas	Kommu Mogerle ss Unit D all kann vo	unikation unikation ata System m Betreiber v may be requir	775 — eriangt eed to takk
Das oben besch The product of the of EU harmonisier EU harmonized Sta Angewandte ha ausgestattet ist: Harmonized standa Ort, Datum Place and date of Name und Unter Name und Unter Name and signal * Warnungi – Dies ist warden, angemessen * Warningi – This is a adequate measures.	riebene Produ declaration describ te Normen ndards rmonisierte No rds applied, if the o f issue erschrift ture eine Einrichtung der 1 dass A deviec. In a d	kt ist konform ed above is in o EN 6 rmen, wenn above described EN 1 EN 6 EN 1 EN 6	en mit der sonformity 1000-6- das ober d product is 1000 328 50950-1: Echterdi Elmar E Quality N nrichtung ka sent this dev	n Anforder with the requ 4:2007* 1 n beschriel s equipped w 1 V1.8.1; 1 V1.7.1 E 2006 + A1 ingen, 12/ Jossler fanager - ann im Wohnbe ice may cause	ungen ( uirements EN 610 bene Pi with WLA/ EN 301 EN 301 11:2009 14/2010 ereich Funi e radio frequencies	der folgen s of the follow 00-6-2:20 rodukt opt N communic 489-17 V 893 V1.4. ) 0 	den Dok ving docur 05 ional mi ation optic 1.3.2 1 	umente nents: t WLAN vnal: Thomas <i>Busines</i> n diesem F n which cas	Kommu Kommu Mogerle ss Unit D all kann vo e the user u	unikation unikation ata Syster m Betreiber v may be requir s 6443 BGB 1	ns – erlangt red to takr
Das oben besch The product of the of EU harmonisier EU harmonized Sta Angewandte ha ausgestattet ist: Harmonized standa Ort, Datum Place and date of Name und Unter Name und Unter Name and signal * Warnungi – Dies ist adequate measures. Diese Erklärung besch Sicherheits- und Einby	riebene Produ declaration describ te Normen ndards rmonisierte No rds applied, if the o f issue erschrift ture eine Einrichtung der 1 eine Einrichtung der 2 dass A deviec. In a meinigt die Übereinstif aufinweise der mitgel	kt ist konform ed above is in o EN 6 rmen, wenn above described EN 1 EN 6 EN 1 EN 1 Classe A Diese Ei vühren. somestic environm	en mit der sonformity 1000-6- das ober d product is 1000 328 50950-1: -Echterdi Elmar E Quality N nrichtung ka nent this dev nannten Rickunentation	n Anforder with the requ 4:2007* I n beschriel s equipped w 1 V1.8.1; I V1.7.1 E 2006 + A1 ingen, 12/ 3ossler <i>fanager</i> - ann im Wohnbuice may cause thilinien, ist jed n und zu beac	ungen ( uirements EN 610 bene Pr with WLA/ EN 301 EN 301 11:2009	der folgen s of the follow 00-6-2:20 rodukt opt N communic 489-17 V 893 V1.4. ) 0 0 	den Dok ving docur 05 ional mi ation optic 1.3.2 1  Manager rursachen; i erference, li ts- oder Ha	Umente nents: t WLAN vnal: Thomas <i>Busines</i> n diesem F n which cas tbarkeitsga	Kommu Kommu Mogerle ss Unit D all kann vo e the user u rantie nach	unikation unikation ata Syster m Betreiber v may be require s \$443 BGB. 1 bentation according	775 eriangt red to take



# <u>VMT6010</u>

	EG-Konfor	mitätserkläru	ng / FC Declarat	ion of Conformity	adstec
	LG-Romoi	matserkiardi	ig / Lo Declara	ion of comonity	
Hersteller / Adre Manufacturer / Addr	SSE: ess:	ads-tec Gml 70771 Leinfe	bH Raiffeisenst elden-Echterdinge	r. 14 n / Germany	
Produktbeschrei	bung:	VMT 6010	Modell / Model:	DVG-VMT6010-xx	сх-уу
10000003010101		xxx Ist eine Is a con yy Zwei un Two val	fortlaufende Nummer zw tinuous number between terschiedliche Buchstab rying letters depending o	vischen 001 bis 899 und de a 001 to 899 and defines the en abhängig vom Betriebse n the Operating System	finiert die System-Konfigurationen. le System-configurations. system
Das oben besch folgender Europ	riebene Produ äischer Richtl	ukt stimmt in der vi inien überein: form as delivered is in	on uns in Verkehr g conformity with the prov	ebrachten Ausführung sions of the following Euro	g mit den Bestimmungen pean Directives:
2004/108/EG	Richtlinie o der Mitglie (Anwendu Directive of t electromagne (Applies only	les Europäischen dstaaten über die ng trifft nur zu bei he European Parliame stic compatibility y for products without t	Parlaments und des elektromagnetische Produkten ohne WL nt and of the Council on WLAN-Communication)	Rates zur Angleichu Verträglichkeit AN-Kommunikation) the approximation of the la	ng der Rechtsvorschriften ws of the Member States relating to
1999/5/EG	Richtlinie of Telekomm (Anwendu Directive of t and the mutu (Applies only	tes Europäischen unikationsendeinr ng trifft nur zu bei he European Parliame al recognition of their for products with WLA	Parlaments und det ichtungen und die g Produkten mit WLA nt and of the Council on conformity AN-Communication)	Rates über Funkanla egenseitige Anerkenr N-Kommunikation) radio equipment and telec	agen und lung ihrer Konformität ommunications terminal equipment
Das oben besch The product of the o EU harmonisien EU harmonized Sta	riebene Produ leclaration descrite Normen Indards	ukt ist konform mit bed above is in confor EN 6100	t den Anforderunger mity with the requiremer 0-6-4:2007* EN 61	der folgenden Dokun ts of the following docume 000-6-2:2005	nente: nts:
Angewandte ha ausgestattet ist: Harmonized standa	rmonisierte No	ormen, wenn das o	oben beschriebene luct is equipped with WL	Produkt optional mit V	VLAN Kommunikation
		EN 301 4 EN 300 3 EN 6095	189-1 V1.8.1; EN 30 328 V1.7.1 EN 30 0-1:2006 + A11:200	1 489-17 V1.3.2 1 893 V1.4.1 9	
	fissue	Leinfelden-Ech	terdingen, 12/14/20	10	11 1
Ort, Datum		0	dell'	1/	Muchal
Ort, Datum Place and date o	rschrift	Eln	nar Bossler	- Manager B	omas Mogerle usiness Unit Data Systems -
Ort, Datum Place and date o Name und Unte Name and signat	ure	Qual	ity Manager -		
Ort, Datum Place and date o Name und Unter Name and signat * Warnung! – Dies ist werden, angemessene * Warning! – This is a adequate measures.	ure eine Einrichtung der Maßnahmen durch Class A deviec. In a	Klasse A. Diese Einrichtu zuführen. I domestic environment thi	Ity Manager - ing kann im Wohnbereich Fi is device may cause radio fr	inkstörungen verursachen; in d equency (RF) interference, in w	iesem Fall kann vom Betreiber verlangt hich case the user may be required to take



# <u>VMT6012</u>

	EG-Konfor	mitätserkläru	ng / FC Declara	tion of Conformi	adstec
	LO-Romon	matserkiaru	ing / Lo Decidida		.,
Hersteller / Adre	esse:	ads-tec Gm	bH Raiffeisenst	r. 14 n / Germany	
Manufacturer / Add	ress:	70771 Lenn	elden-Lenterdinge	in / Germany	
Produktbeschre	ibung:	VMT 6012	Modell / Model:	DVG-VMT6012	-ххх-уу
Productdescription:		xxx Ist eine	fortlaufende Nummer zv	vischen 001 bis 899 und	definiert die System-Konfigurationen.
		yy Zweiu Two ve	ntinuous number between nterschiedliche Buchstab arying letters depending o	en abhängig vom Betrie on the Operating System	s the System-configurations. bbssystem 7
Das oben bescl	nriebene Produ	ukt stimmt in der v	on uns in Verkehr g	ebrachten Ausführt	ung mit den Bestimmungen
folgender Europ The product descrit	bed above in the	form as delivered is in	conformity with the prov	isions of the following E	uropean Directives:
2004/108/EG	Richtlinie o	les Europäischen	Parlaments und des	Rates zur Angleic	hung der Rechtsvorschriften
	der Mitglie	dstaaten über die og trifft nur zu bei	elektromagnetische Produkten ohne WI	Verträglichkeit AN-Kommunikatio	n)
	Directive of the electromagne	he European Parliame atic compatibility	ant and of the Council on	the approximation of the	e laws of the Member States relating to
	(Applies only	ror products without	ment outinitation of the		a
1999/5/EG	Richtlinie o	les Europäischen	Parlaments und die o	Rates über Funka	nlagen und ennung ihrer Konformität
	(Anwendu	ng trifft nur zu bei	Produkten mit WLA	N-Kommunikation)	
	Directive of t	he European Parliame	ent and of the Council on conformity	radio equipment and te	lecommunications terminal equipment
	(Applies only	for products with WL	AN-Communication)		
EU harmonisier EU harmonized Sta	rte Normen andards	EN 6100	10-6-4:2007* EN 61	000-6-2:2005	
Angewandte ha	armonisierte No	ormen, wenn das	oben beschriebene	Produkt optional m	it WLAN Kommunikation
ausdestattet ist	ards applied, if the	above described pro	duct is equipped with WL	AN communication opti	onal:
ausgestattet ist Harmonized standa		EN 201		4 400 47 14 0 0	
ausgestattet ist Harmonized standa		EN 300	489-1 V1.8.1; EN 30 328 V1.7.1 EN 30	1 893 V1.4.1	
ausgestattet ist Harmonized standa		EN 300 EN 6095	489-1 V1.8.1; EN 30 328 V1.7.1 EN 30 60-1:2006 + A11:200	1 893 V1.4.1 1993 V1.4.1	
ausgestattet ist Harmonized standa		EN 300 EN 6095	489-1 V1.8.1; EN 30 328 V1.7.1 EN 30 50-1:2006 + A11:200	1 489-17 V1.3.2 1 893 V1.4.1 )9	
ausgestattet ist Harmonized standa		EN 301 EN 300 EN 6095	489-1 V1.8.1; EN 30 328 V1.7.1 EN 30 50-1:2006 + A11:200	11 489-17 V1.3.2 11 893 V1.4.1 )9	
ausgestattet ist Harmonized standa		EN 300 EN 300 EN 6095	489-1 V1.8.1; EN 30 328 V1.7.1 EN 30 50-1:2006 + A11:200	17 489-77 V1.3.2 17 893 V1.4.1 19	
Ausgestatter ist		EN 300 EN 6095	489-1 V1.8.1; EN 30 328 V1.7.1 EN 30 50-1:2006 + A11:20(	10	
Ort, Datum Place and date of	of issue	EN 300 EN 6095 Leinfelden-Ech	489-1 V1.8.1; EN 30 328 V1.7.1 EN 30 50-1:2006 + A11:200	1489-17 V1.3.2 1893 V1.4.1 19	. 14
Ort, Datum Place and date of	of issue	EN 300 EN 6095	449-1 V1.8.1; EN 30 328 V1.7.1 EN 30 50-1:2006 + A11:200 Iterdingen, 12/14/20	1489-17 V1.3.2 1893 V1.4.1 19	1 Marc
Ort, Datum Place and date of Name und Untu Name and signa	of issue erschrift ture	EN 300 EN 6095 Leinfelden-Ect	449-1 V1.8.1; EN 30 328 V1.7.1 EN 30 50-1:2006 + A11:200 iterdingen, 12/14/20 mar Bossler	10	Thomas Møgerie
Ort, Datum Place and date of Name und Untu Name and signa	of issue erschrift ture	EN 300 EN 6095 Leinfelden-Ect	449-1 V1.8.1; EN 30 328 V1.7.1 EN 30 50-1:2006 + A11:200 iterdingen, 12/14/20 mar Bossler lity Manager -	10 - <u>Manage</u>	Thomas Møgerie r Business Unit Data Systems –
Ort, Datum Place and date of Name und Unto Name and signa * Wamung! – Dies ist werden, angemessen * Waming! – This is a adequate measures	of issue erschrift ture eine Einrichtung der e Maßnahmen durch i Class A deviec. In a	Leinfelden-Ech Leinfelden-Ech La Leinfelden-Ech Qua Klasse A. Diese Einricht zuführen. domestic environment th	449-1 V1.8.1; EN 31 328 V1.7.1 EN 30 50-1:2006 + A11:200 interdingen, 12/14/20 mar Bossler <i>vity Manager</i> - ung kann im Wohnbereich Fi is device may cause racio fin	1489-17 V1.3.2 1893 V1.4.1 29 10 - Manage unkstörungen verursachen; squency (RF) interference,	Thomas Møgerie <i>r Business Unit Data Systems</i> – in diesem Fall kann vom Betreiber verlangt in which case the user may be required to tak
Ort, Datum Place and date of Name und Untr Name and signa * Wamung! – Dies ist werden, angemessen * Waming! – This is a adequate measures. Diese Erklärung beac	of issue erschrift ture e Maßnahmen durch i Class A deviec. In a sheinigt die Übereinst	EN 300 EN 6095 Leinfelden-Ech La Eh Qua Klasse A. Diese Einricht zuführen. domestic environment th	449-1 V1.8.1; EN 31 328 V1.7.1 EN 30 50-1:2006 + A11:20( hterdingen, 12/14/20 mar Bossler <i>lifty Manager</i> - ung kann im Wohnbereich Fi ils device may cause radio fi en Richtlinien, ist jedoch keir	10 10 10 10 10 - Manage unkstörungen verursachen; equency (RF) interference, re Beschaffenheits- oder Hi	Thomas Mögerle r Business Unit Data Systems – in diesem Fall kann vom Betreiber verlangt in which case the user may be required to tak altbarkeitsgarantie nach §443 BGB. Die



#### <u>VMT6015</u>

	EG-Konforr	nitätserklärur	ng / EC Declara	tion of Conformity
Hersteller / Adre	sse:	ads-tec Gml	oH Raiffeisenst	tr. 14
Manufacturer / Addr	BSS:	70771 Leinfe	elden-Echterdinge	en / Germany
Produktbeschrei Productdescription:	bung:	VMT 6015	Modell / Model:	DVG-VMT6015-xxx-yy
		xxx Isteine Is a con yy Zwei un Two var	fortlaufende Nummer zu tinuous number betwee terschiedliche Buchstab ying letters depending o	wischen 001 bis 899 und definiert die System-Konfiguratione in 001 to 899 and defines the System-configurations. ien abhängig vom Betriebssystem on the Operating System
Das oben besch folgender Europa The product describ	riebene Produk äischer Richtlin ed above in the fo	ct stimmt in der vo lien überein: orm as delivered is in d	on uns in Verkehr g	ebrachten Ausführung mit den Bestimmungen risions of the following European Directives:
2004/108/EG	Richtlinie de der Mitglied (Anwendung Directive of the electromagnet (Applies only	es Europäischen A staaten über die e g trifft nur zu bei F European Parliamer ic compatibility for products without V	Parlaments und de: elektromagnetische Produkten ohne WL at and of the Council on WLAN-Communication)	s Rates zur Angleichung der Rechtsvorschriften Verträglichkeit "AN-Kommunikation) the approximation of the laws of the Member States relating
1999/5/EG	Richtlinie de Telekommu (Anwendung Directive of the and the mutua (Applies only f	SEuropäischen F Inikationsendeinri g trifft nur zu bei F European Parliamer I recognition of their c for products with WLA	Parlaments und de: chtungen und die g Produkten mit WLA nt and of the Council on conformity N-Communication)	s Rates über Funkanlagen und jegenseitige Anerkennung ihrer Konformität N-Kommunikation) radio equipment and telecommunications terminal equipmen
Das oben besch The product of the o	riebene Produl leclaration describe	kt ist konform mit ed above is in conform	den Anforderunger nity with the requiremen	n der folgenden Dokumente: ts of the following documents:
Das oben besch The product of the o EU harmonisiert EU harmonized Star	riebene Produl leclaration describe le Normen ndards	kt ist konform mit ed above is in conforr EN 61000	den Anforderungen nity with the requiremen 0-6-4:2007* EN 61	n der folgenden Dokumente: ts of the following documents: 1000-6-2:2005
Das oben besch The product of the c EU harmonisiert EU harmonized Star Angewandte har ausgestattet ist: Harmonized standar	riebene Produl leclaration describi le Normen ndards monisierte Nor ds applied, if the a	kt ist konform mit ed above is in confon EN 61000 men, wenn das o bove described prode	den Anforderunger mity with the requiremen 0-6-4:2007* EN 61 oben beschriebene uct is equipped with WL	n der folgenden Dokumente: hts of the following documents: 1000-6-2:2005 Produkt optional mit WLAN Kommunikation AN communication optional:
Das oben besch The product of the c EU harmonised Star Angewandte har ausgestattet ist: Harmonized standar	riebene Produl leclaration describ re Normen ndards monisierte Nor rds applied, if the a	kt ist konform mit ed above is in confor EN 61000 men, wenn das c Ibove described produ EN 301 44 EN 300 3 EN 60950	den Anforderunger mity with the requiremen 0-6-4:2007* EN 61 oben beschriebene uct is equipped with WL 89-1 V1.8.1; EN 30 28 V1.7.1 EN 30 0-1:2006 + A11:200	n der folgenden Dokumente: hts of the following documents: 1000-6-2:2005 Produkt optional mit WLAN Kommunikation AN communication optional: 11 489-17 V1.3.2 13 893 V1.4.1 39
Das oben besch The product of the c EU harmonized Stau Angewandte har ausgestattet ist: Harmonized standar	rriebene Produl leclaration describi te Normen ndards rmonisierte Nor rds applied, if the a	kt ist konform mit ed above is in confor EN 61000 men, wenn das c ibove described produ EN 301 4 EN 300 3 EN 60950	den Anforderunger mity with the requiremen 0-6-4:2007* EN 61 ben beschriebene uct is equipped with WL 89-1 V1.8.1; EN 30 28 V1.7.1 EN 30 1-1:2006 + A11:200	n der folgenden Dokumente: hts of the following documents: 1000-6-2:2005 Produkt optional mit WLAN Kommunikation AN communication optional: 01 489-17 V1.3.2 1 893 V1.4.1 09
Das oben besch The product of the c EU harmonized Stau Angewandte har ausgestattet ist: Harmonized standar Drt, Datum Place and date of	ritebene Produl leclaration describi te Normen ndards rmonisierte Nor rds applied, if the a	kt ist konform mit ed above is in confor EN 61000 men, wenn das c ibove described produ EN 301 4 EN 300 3 EN 60950	den Anforderunger mity with the requiremen )-6-4:2007* EN 61 ben beschriebene uct is equipped with WL 89-1 V1.8.1; EN 30 28 V1.7.1 EN 30 )-1:2006 + A11:200 erdingen, 12/14/20	n der folgenden Dokumente: hts of the following documents: 1000-6-2:2005 Produkt optional mit WLAN Kommunikation AN communication optional: 11 489-17 V1.3.2 1 893 V1.4.1 19
Das oben besch The product of the c EU harmonized Star Angewandte har ausgestattet ist: Harmonized standar Drt, Datum Place and date of Name und Unter Vame and signate	ritebene Produl leclaration describi te Normen ndards rmonisierte Nor ds applied, if the a ds applied, if the a schrift ire	kt ist konform mit ed above is in confor EN 61000 rmen, wenn das c ibove described produ EN 301 4 EN 300 3 EN 60950 Leinfelden-Echtu	den Anforderunger mity with the requiremen 0-6-4:2007* EN 61 ben beschriebene uct is equipped with WL 89-1 V1.8.1; EN 30 28 V1.7.1 EN 30 0-1:2006 + A11:200 erdingen, 12/14/20 ar Bossler ty Manager -	n der folgenden Dokumente: hts of the following documents: 1000-6-2:2005 Produkt optional mit WLAN Kommunikation AN communication optional: 11 489-17 V1.3.2 13 893 V1.4.1 39 10 10 10 10 10 10 10 10 10 10
Das oben besch The product of the c EU harmonized Star Angewandte har ausgestattet ist: Harmonized standar Drt, Datum Place and date of Name und Unter Name und Unter Name und Unter Name und Signatu 'Wamung! – Dies ist e werden, angemessene 'Waming! – This is a C	ritebene Produl leclaration describi te Normen ndards rmonisierte Nor rds applied, if the a rissue rschrift ire ine Einrichtung der K Maßnahmen durchzu Jass A deviec. In a di	kt ist konform mit ed above is in confor EN 6100( Immen, wenn das c ubove described produ EN 301 4 EN 300 3 EN 6095( Leinfelden-Echtu Lasse A. Diese Einrichtur führen. omestic environment this	den Anforderunger mity with the requirement 0-6-4:2007* EN 61 ben beschriebene uct is equipped with WL 89-1 V1.8.1; EN 30 28 V1.7.1 EN 30 0-1:2006 + A11:200 erdingen, 12/14/20 war Bossler ty Manager - ng kann im Wohnbereich Fund erdevice may cause radio for	In der folgenden Dokumente: Ints of the following documents: IOOO-6-2:2005 Produkt optional mit WLAN Kommunikation AN communication optional: D1 489-17 V1.3.2 1893 V1.4.1 J9 IO IO Interference, in which case the user may be required to the theory of the theorem and theorem and theorem and the theorem and th