
TMS II central unit / TKS III central unit - Tecalemit Management System

- **Calibratable oil management system**
- **Expandable in modular form**
- **Network technology, asanetwork certified**
- **Oil data administration program**



Tecalemit oil management system

The electronic Tecalemit oil management system

is used for control and monitoring of oil supply equipment in car workshops and in industry. It guarantees a calibratable dispensing and data storage as well as avoiding incorrect fillings and ensures the complete documentation starting with the order entry, on to oil dispensing, and ending with invoicing – Quality assurance chain is the keyword.

The clear traceability of the material flow ensures timely supply as well as a needs-optimised supply chain management system and eliminates oil losses.

The heart of the Tecalemit oil management system

are the TMS II or TKS III central units for the control of four or two calibratable dispensing points. The modular design is for a high performance system consisting of one central unit for small and medium sized workshops with attractive price / performance ratio. The operation of the devices is very easy and can even be understood by lay persons after brief instruction. User guidance and all messages are via a text display. Optional access security via PIN code or transponder tags with RFID technology prevents maloperation and abuse.

Each system can be retrofitted with further central units, there is no limit to extension upwards. The concept of being able on the one hand to work with autonomously-operating central units and on the other hand of being able to create a network of larger systems, offers the additional of increased redundancy of a complex overall system.

High performance components from in-house production Made in Germany

complete and round off the system. Tecalemit has a wide range of electrical gear pumps or alternative pneumatically driven piston pumps with the well proven Tecalemit air motor. Measuring and shut off blocks with highly accurate calibratable meters and indestructible Tecalemit hose drums take care of the hydraulic connection of the system.

Transmission of the pump data

is normally not needed because of the calibratable electronic journal of the central units, but it can be done via a printer that records every transaction. If this is not enough for some users then there are various individual software solutions available, which allow for more advanced data processing and evaluation.

However the system only shows its full performance capability when networked to a Dealer Management System (DMS), be it via a hardware solution - the Mini-Gateway - or a PC based interface.

Depending on the performance scope it is possible to have dispensing monitoring, pump data transfer and even sometimes specification of vehicle specific oil quantities and types from the DMS.



TMS II central unit - Tecalemit Management System

Electronic oil management system for control and monitoring of oil supply equipment in vehicle workshops and in industry for max. 4 dispensing points, calibratable or max. 8 dispensing points, non calibratable. The data storage is made via an integrated electronic journal (no protocol printer required).

Up to 16 central units can be connected via a bus system.

User guidance and all messages are via a text display. Optional access security via PIN code or transponder tags with RFID technology prevents maloperation and abuse.

The pump data can be printed on a matrix printer as an option, in addition there are various individual software solutions available, which allow for more advanced data processing and evaluation.

Connection to common Dealer Management Systems (DMS) via Mini-Gateway or PC based interface program. Depending on the performance scope it is possible to have dispensing monitoring, pump data transfer and even sometimes specification of vehicle specific oil quantities and types from the DMS.

Characteristics:

Article	TMS II	
Calibratable	✓	
Max. dispensing	4 dispensing points / 4 oil types	8 dispensing points / 8 oil types
Housing	Alu housing 330 x 232 x 129 mm	
Display	LC display 4-line, 20 digits	
Character height	12 mm	
Input	Short stroke keyboard 16 keys	
Inputs	4x double pulse generator 4x dispensing contact 4x level contact	8x pulse generator
Outputs for shut-off block and pump activation	4	8
Mains connection	230 V 50 Hz / 115 V 60 HZ, power consumption approx. 20 W (only central unit)	
Printer interface, direct EDP connection	RS 232	
Interface for PC, MiniGateway	RS 485	
Net weight	5,2 kg	

Devices

Item no.	Product	Calibratable*	Model
030 461 661	TMS IIe	✓	Dispensing at 4 dispensing points / 4 oil types
030 461 691	TMS IIne		Dispensing at 8 dispensing points / 8 oil types
030 461 681	TMS IIe with transponder reading unit	✓	Dispensing at 4 dispensing points / 4 oil types, Access security incl. 5 transponder tags
030 461 731	TMS IIne with transponder reading unit		Dispensing at 8 dispensing points / 8 oil types, Access security incl. 5 transponder tags

* The calibratable units are officially pre calibrated in the factory.

TMS II and TKS III are compatible with each other and can also be used together in a system.

User menu TMS II and TKS III can be switched from German to English.
Further languages on request.

TKS III central unit - Tecalemit Compact System

Electronic oil management system for control and monitoring of oil supply equipment in vehicle workshops and in industry for 2 dispensing points, calibratable or 4 dispensing points, non calibratable.

Other features same as TMS II.



Characteristics:

Article	TKS III	
Calibratable	✓	
Max. dispensing	2 dispensing points / 2 oil types	4 dispensing points / 4 oil types
Housing	Plastic housing 213 x 185 x 94 mm	
Display	LC display 2-line, 16 digits	
Character height	8 mm	
Input	short stroke keyboard 16 keys	
Inputs	2x double pulse generator 2x dispensing contact	4x pulse generator
Outputs for shutt-off block and pump activation	2	4
Mains connection	230 V 50 Hz / 115 V 60 HZ, power consumption approx. 20 W (only central unit)	
Printer interface, direct EDV connection	RS 232	
Interface for PC, MiniGateway	RS 485	
Net weight	1,0 kg	

Devices

Item no.	Product	Calibratable*	Model
030 461 711	TKS IIIe	✓	Dispensing at 2 dispensing points / 2 oil types
030 461 701	TKS IIIne		Dispensing at 4 dispensing points / 4 oil types
030 461 741	TKS IIIe with transponder reading unit	✓	Dispensing at 2 dispensing points / 2 oil types, Access security incl. 5 transponder tags
030 461 751	TKS IIIne with transponder reading unit		Dispensing at 4 dispensing points / 4 oil types, Access security incl. 5 transponder tags

* The calibratable units are officially pre calibrated in the factory.

TMS II and TKS III are compatible with each other and can also be used together in a system.

User menu TMS II and TKS III can be switched from German to English.
Further languages on request.

Mini-Gateway

The Mini-Gateway is for networking several central units for applications in which no additional Tecalemit software is used. These are primarily stand alone applications with protocol printer or direct connections via RS232 to "classical" Dealer Management Systems. The Mini-Gateway is configured via a DIP switch. Further settings are made via a software tool.



Mini-Gateway
Item no. 030 465 241



Printer
Item no. 030 465 021



Barcode printer
Item no. 030 465 031

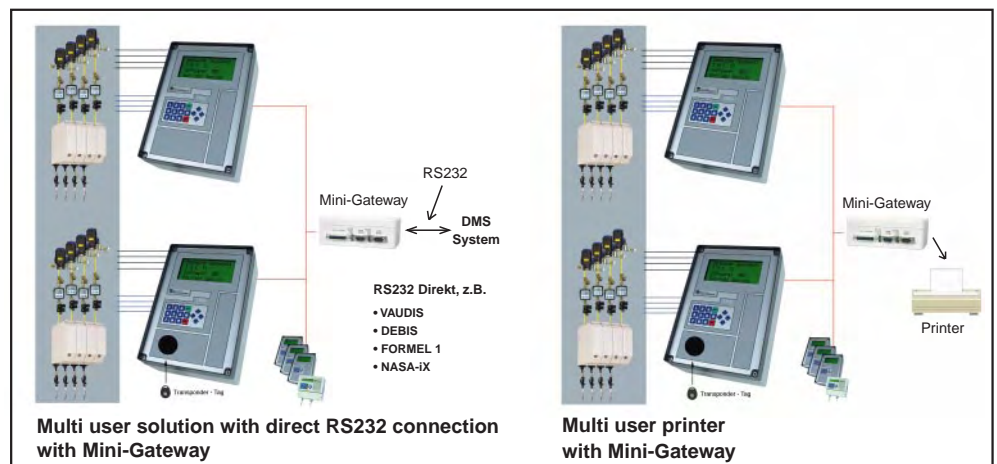


Barcode scanner
Item no. 030 465 041



Transponder tag
Item no. 028 780 101

Item no.	Product	Equipment
030 465 241	Mini-Gateway 230 V 50 Hz	Process supported system for networking of several TMS II / TKS III central units on a printer or EDP



Item no.	Product	Equipment
030 465 021	Printer	with serial interface V 24/RS 232. Matrix printer for connection to the TMS II central unit or Mini-Gateway
030465 031	Barcode printer for TMS II 230 V 50 Hz	for printing barcode labels via a PC with the OilControl-Software
030 465 041	Barcode scanner for TMS II 230 V 50 Hz	external reader for direct connection to a TMS II central unit
028 780 101	Transponder tag	individual with fixed coding for technician id
046 072 551	Daten line	for connection to the TMS II central unit with printer or PC, shielded
046 072 511	Daten line	for connection of the TMS II central unit to each other and to Mini-Gateway
046 010 291	Printer connector	25 pin, for connection of the data line to the printer, screwable
046 010 331	Printer connector	9 pin, for connection of the data line to the PC, screwable
043 420 771	Wall spacer for TMS II	



The electronic Tecalemit oil management system has a large number of EDP connection options as a special feature. The wide range of software solutions goes from individual evaluation programs right up to fully integrated connection on an available Dealer Management System (DMS) via the different PC-Gateway programs.

Installation requirements are a PC with free serial RS232 interface (Com port, optional via USB adapter) under updated windows operating system. After installation of the CD the programs have to be partially activated.

The selection of a specific software for a specific application is worked out by our project department as part of the comprehensive consulting.

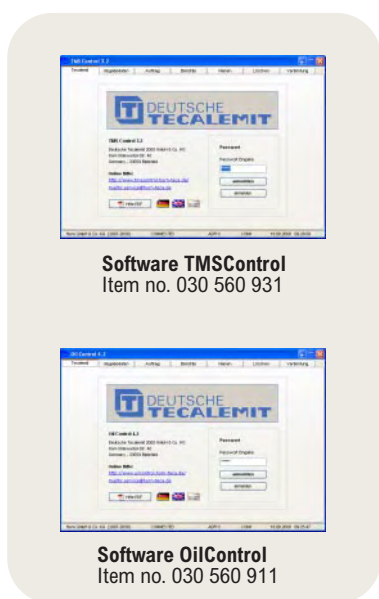
Software TMSControl

With the TMSControl program it is possible to use an existing workshop PC for saving pump data as well as for checking order numbers (optional). The program can run in the background without user entries and thus does not occupy the PC. The workshop operator will be offered an economic and time saving option for data acquisition.

Software OilControl

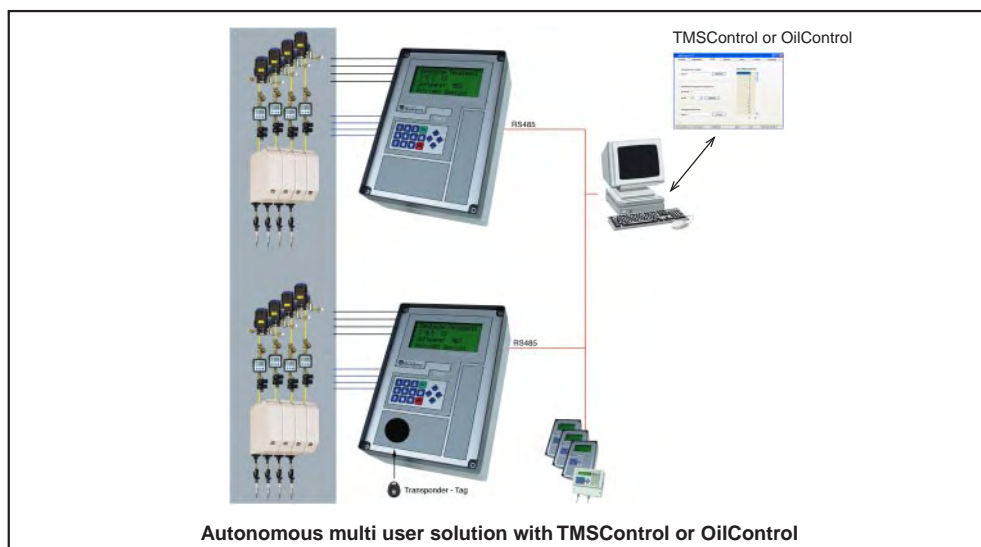
With the OilControl program it is possible to create dispensing orders e.g. on the master PC and transfer them to all connected units. The technician in the workshop only has to select and start the order specific to the vehicle from the list. The completed dispensing order is sent back to the PC and stored in a database. Incorrect entries by the technician are almost ruled out.

The advantages for the workshop operator: Complete data flow from the dispensing order creation to the oil management system and the retransmission of pump data on the PC, hence full control over the data flow.

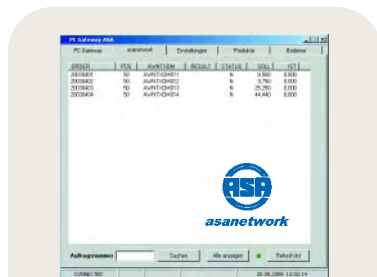


Software

Item no.	Product	
030 560 931	Software TMSControl incl. RS232 adapter	for logging the pump data on the PC
030 560 911	Software OilControl incl. RS232 adapter	for data transfer between PC and oil management as well as logging and export of the pump data (e.g. Excel)



User menu TMS II and TKS III can be switched from German to English. Further languages on request.



Software PC-Gateway / asanetwork
Item no. 030 560 921



Software PC-Gateway / XML
Item no. 030 560 961

Software PC-Gateway / asanetwork

The communication via the PC-Gateway / asanetwork program allows complete dataflow from the order acceptance on the oil management system and the retransmission of the pump data to the invoicing, hence complete system integration. The asanetwork is an open standard and connects workshop equipment and commercial software of different manufacturers. The TMS II / TKS III is asanetwork certified since May 2002.

On the TMS II / TKS III, the technician in the workshop only has to enter the order specific to the vehicle and start it, the rest is taken care of by the system.

Installation requirements: Networked workshop, asanetwork network manager, asanetwork capable Dealer Management System (DMS).

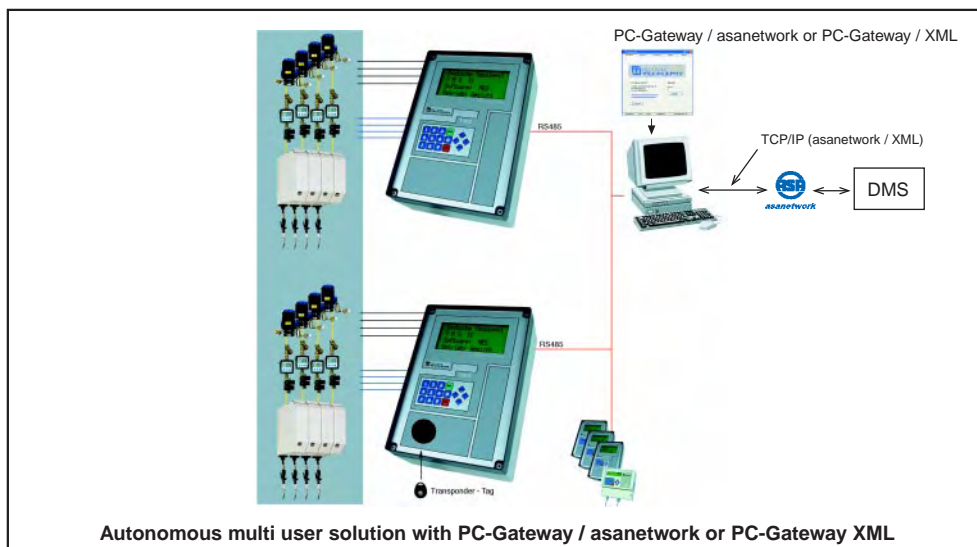
Software PC-Gateway / XML

The communication via the PC-Gateway / XML enables the oil management system to communicate with the Dealer Management System Vaudis Pro via a network based XML interface.

Installation requirements: Networked workshop, Dealer Management System Vaudis Pro with XML interface to the oil management system.

Software

Item no.	Product	
030 560 921	Software PC-Gateway / asanetwork incl. RS232 adapter	for connection of the oil management system to the asanetwork Certification number: 0202 0 0008 TECA
030 560 961	Software PC-Gateway / XML incl. RS232 adapter	for connection of the oil management system to the Dealer Management System Vaudis Pro via XML



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