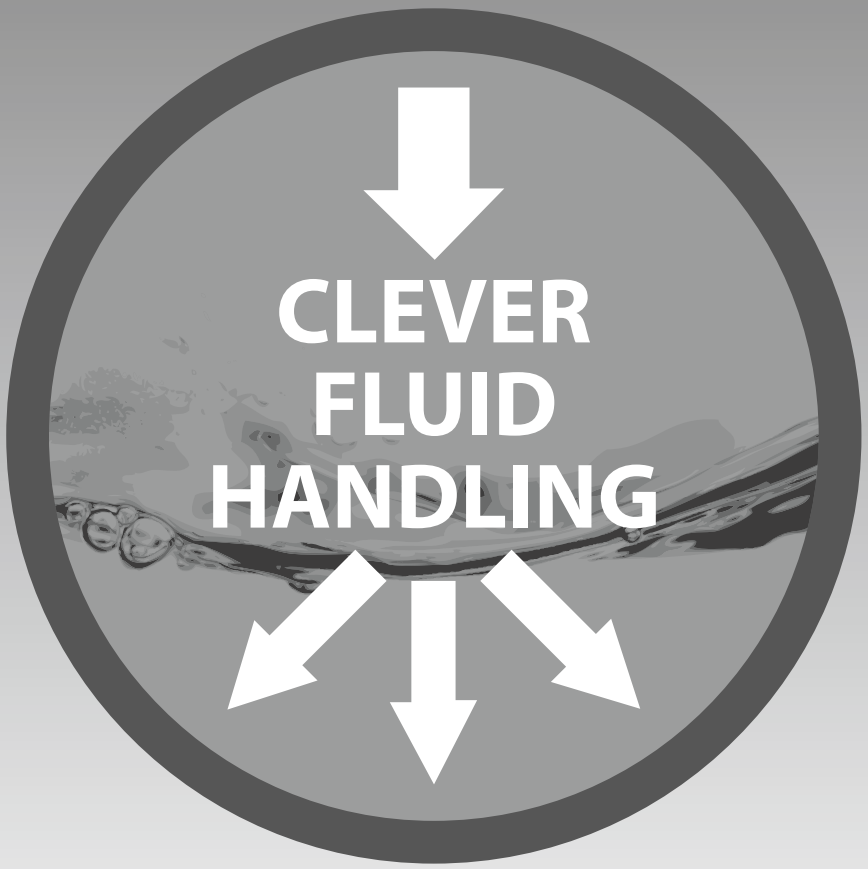
# OMS *Oil management system*


FMT Swiss AG

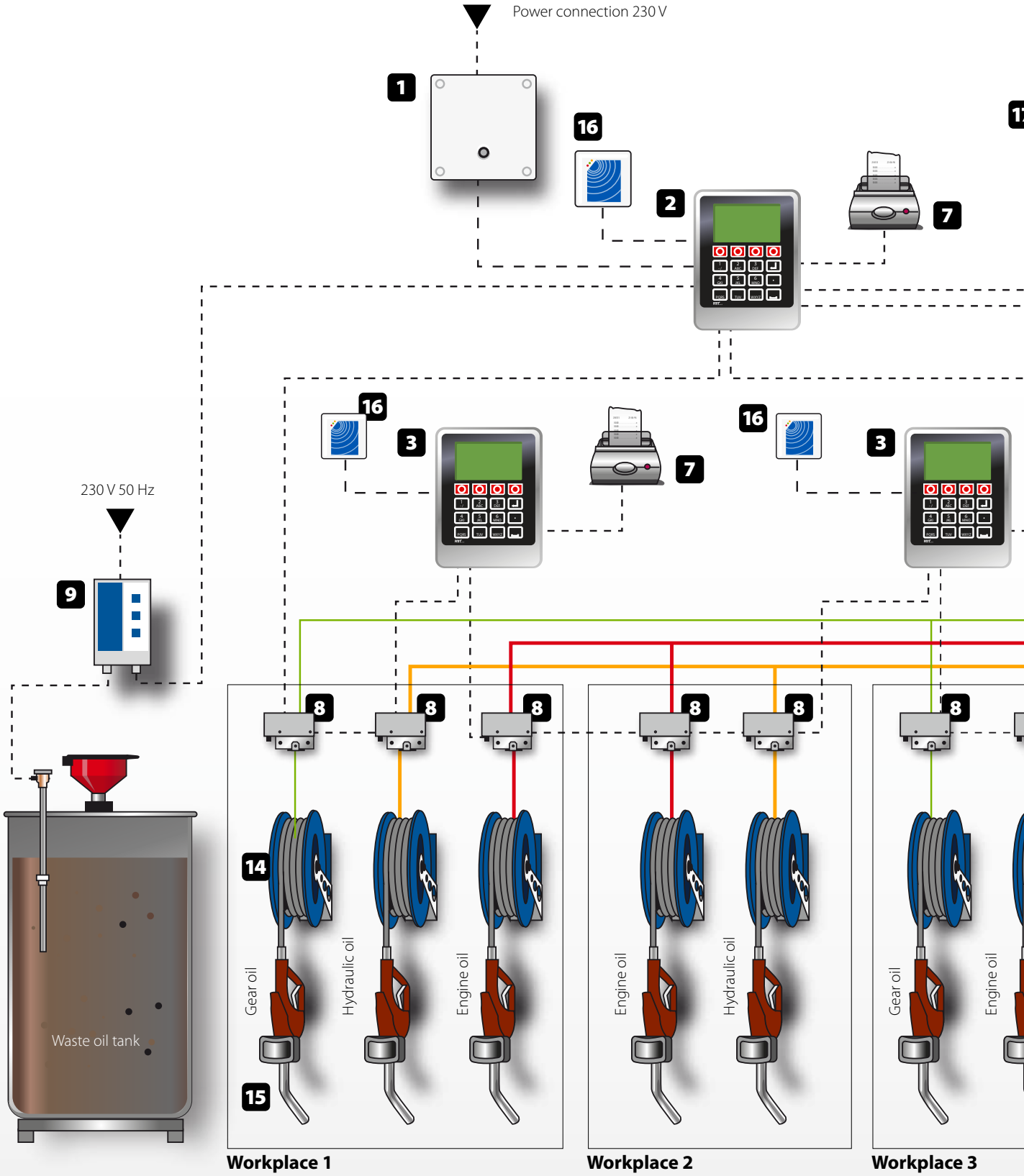
# OMS *Oil management system*



- Management system for fluid dispensing/delivery in workshops, agriculture and industrial environments
- For oil, diesel, antifreeze, radiator coolant, windscreen washer and urea
- System for up to 64 dispensing/delivery points
- Control and evaluation of users, vehicles, dispensed amounts, fluid levels
- User friendly PC application
- Easy data export for analysis and evaluation


CLEVER
FLUID
HANDLING

*Oil management system* ***OMS***
*Version*




**1** Power supply
230 V AC 50/60 Hz-24 V DC

**2** Master terminal
(Terminal Part No. 36 700)

**3** Slave terminal
(Terminal Part No. 36 700)

**4** OMS PC

**5** Host computer

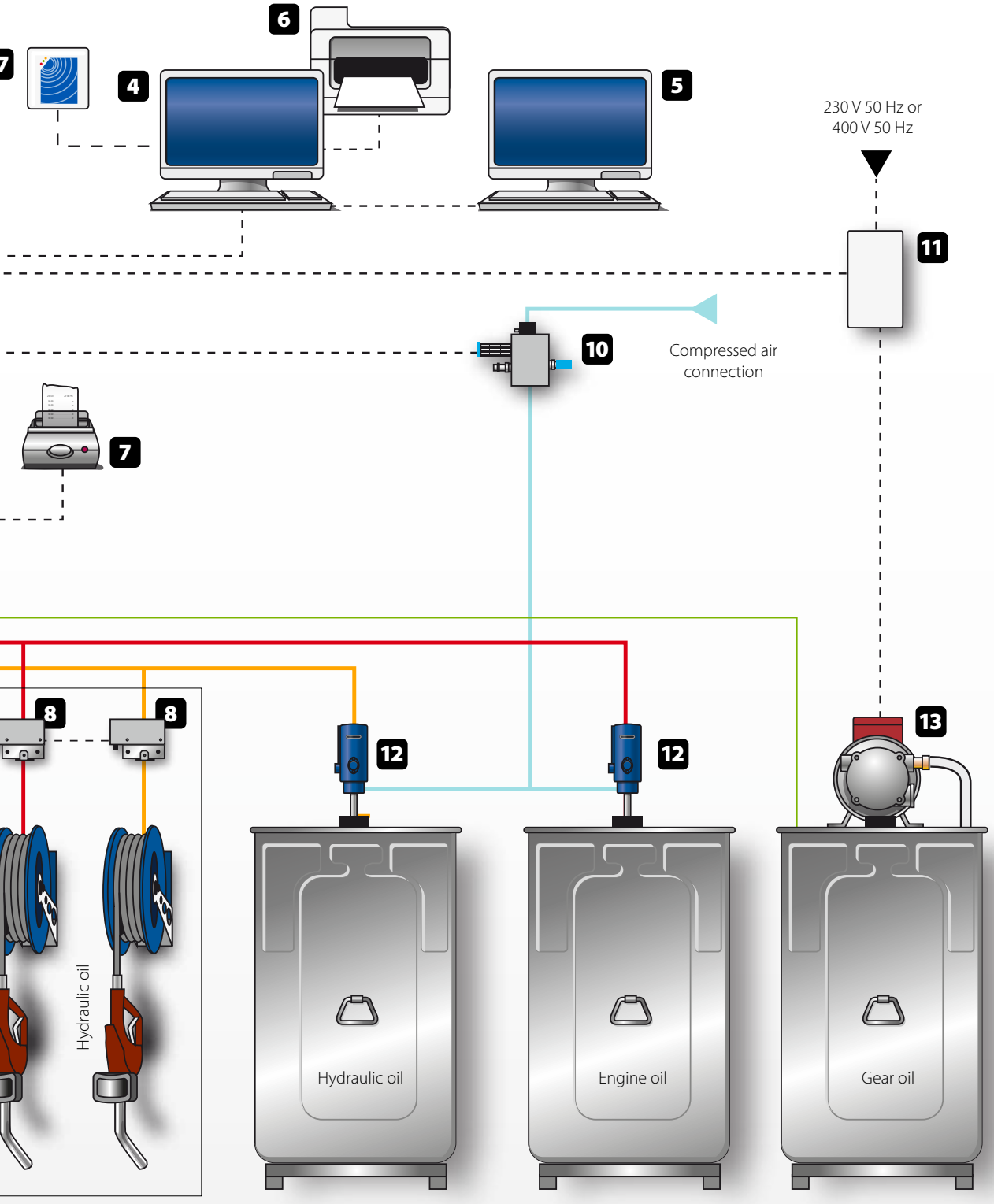
**6** Printer

**7** Receipt printer

**8** Nozzle valve-pulser-NEF

**9** Overflow protection acc. to
L 500 mm-3/4"-230 V 50 Hz

**10** Solenoid valve




o German WHG regulations

**11** Relay for 230-V-pump control
24 V DC

**12** Pneumatic pumps

**13** Electric pumps

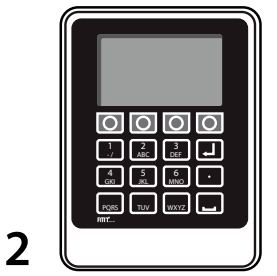
**14** Hose reel

**15** Hose end flow meter

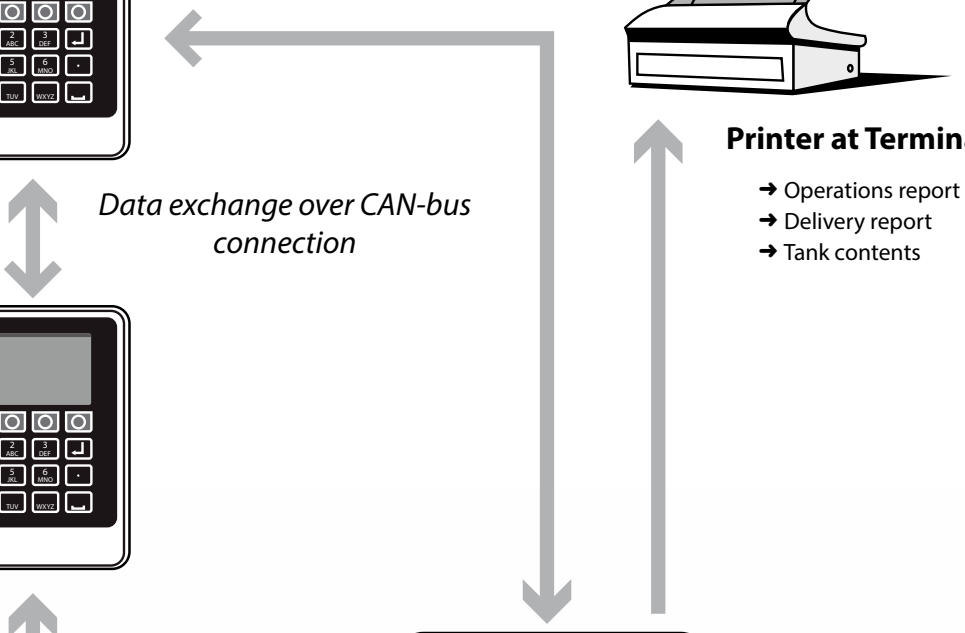
**16** RFID-card reader for Terminal
TS-HR38-USB

**17** RFID-card reader for PC
TS-HR38-TTL

## ***Data-flow OMS*** *Oil management system*



**2**



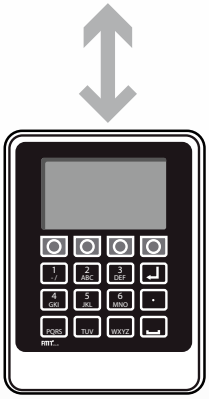
*Data exchange over CAN-bus connection*

**Printer at Terminal**

- ➜ Operations report
- ➜ Delivery report
- ➜ Tank contents



**3**

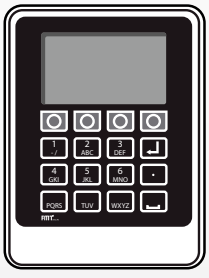


**4**

*Data exchange via Ethernet connection*

**Terminal 1** (Master)

- ➜ Subnet ID
- ➜ Terminal ID
- ➜ ZVP ID
- ➜ Tank data (fill level)
- ➜ Order number
- ➜ User name
- ➜ Date of issuing operation
- ➜ Time of issuing operation
- ➜ Vehicle registration number
- ➜ Odometer reading
- ➜ Preselected quantity
- ➜ Issued quantity



**8**

**Terminals 2-8** (Slaves)

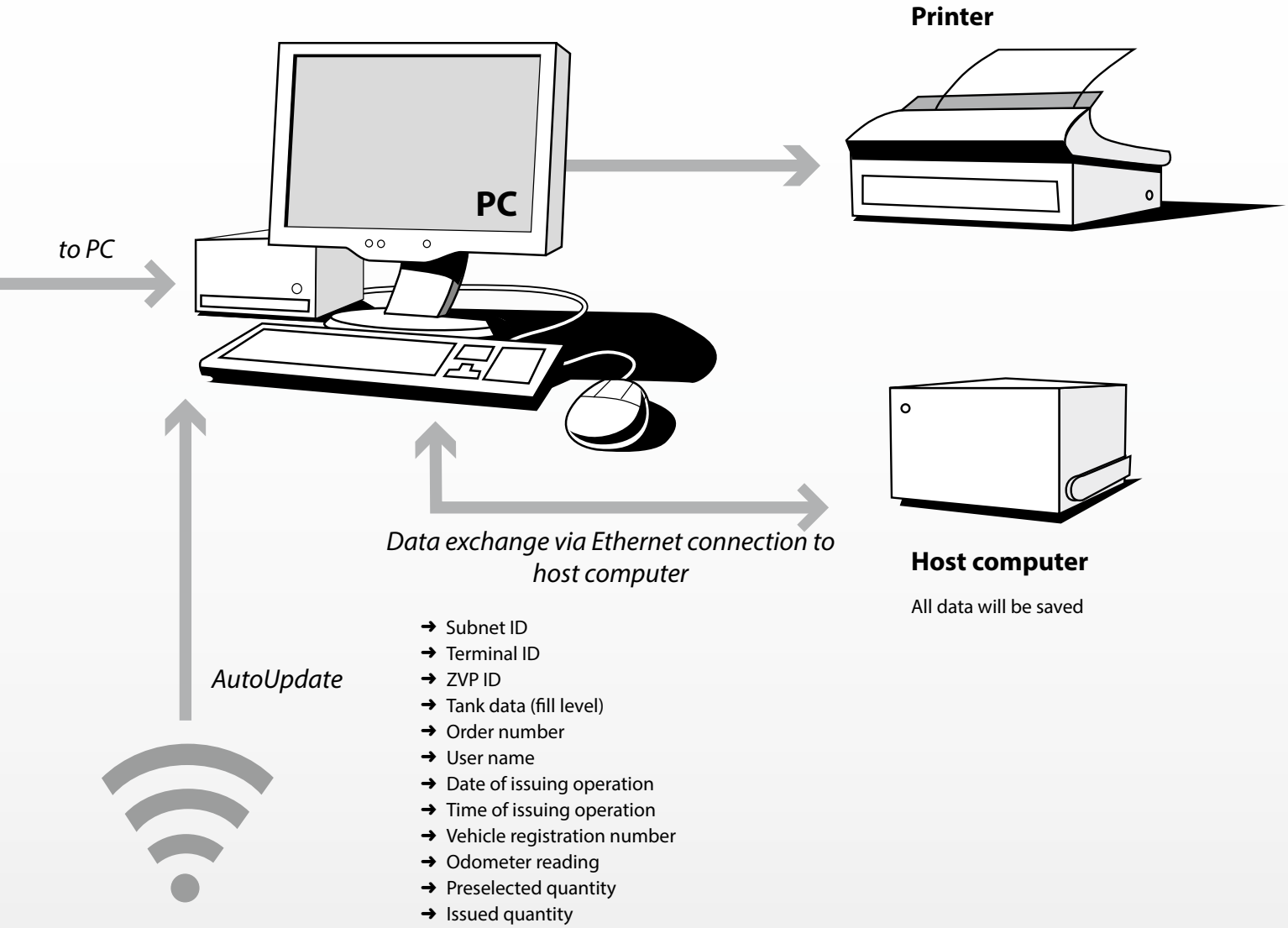
- ➜ Terminal ID
- ➜ ZVP ID
- ➜ Tank data (fill level)
- ➜ Order number
- ➜ User name
- ➜ Date of issuing operation
- ➜ Time of issuing operation
- ➜ Vehicle registration number
- ➜ Odometer reading
- ➜ Preselected quantity
- ➜ Issued quantity

## System configuration

- ➜ Select or search subnet ID
- ➜ Select language
- ➜ Select RFID interface
- ➜ Assign new administrator password
- ➜ Select data access level
- ➜ Enter tank warning level
- ➜ Select host export path
- ➜ Switch host export on/off
- ➜ Enter tank stop level
- ➜ Create or select tank ID
- ➜ Assign tank name
- ➜ Define tank volume
- ➜ Tank adjusting entries
- ➜ Specify odometer reading yes/no
- ➜ Specify vehicle registration number yes/no
- ➜ Change supervisor PIN
- ➜ Create or select ZVP ID
- ➜ ZVP description
- ➜ Assign ZVP to tank
- ➜ Define ZVP activation time
- ➜ Define ZVP shut-off time
- ➜ Issue quantity required yes/no
- ➜ User name
- ➜ Assign user PIN
- ➜ Define user validity period
- ➜ Read in RFID
- ➜ Change operator PIN
- ➜ Network settings
- ➜ Select terminal
- ➜ Terminal description
- ➜ Define terminal printer address
- ➜ Define terminal language
- ➜ Define number of simultaneous issue operations
- ➜ Change system PIN
- ➜ Firmware-Download

## Analysis

- ➜ Time period / date
- ➜ User
- ➜ Subnet ID
- ➜ Terminal ID
- ➜ Tank ID
- ➜ ZVP ID
- ➜ Default quantity
- ➜ Issued quantity
- ➜ Order number
- ➜ Vehicle registration number
- ➜ Odometer reading
- ➜ Deliveries



# *Technical data*


| | |
|---|---|
| Power supply (V): | 24 V DC |
| Data transfer to the PC: | Ethernet |
| Data transfer to the valves: | CAN-Bus |

***PC***

| | |
|---|---|
| Requirements: | Java runtime environment from Version 7 |

***Terminal***

| | |
|---|---|
| Number of Terminals (max): | 8 |
| Terminal designation: | 20 digits (alphanum) |
| Housing material: | Aluminium black anodized |
| Dimensions LxBxH (mm): | 210 x 156 x 57 |
| Weight (kg): | 1,9 |

***User***

| | |
|---|---|
| Type of user ID: | PIN 4 digit (num) or RFID card (optional) |
| Number of users (PIN): | 1000 |
| Number of uses (RFID card): | 1000 |

***Vehicle administration***

| | |
|---|---|
| Number of vehicles: | 100 |
| Vehicle designation: | 10 characters (alphanum) |

***Tank administration***

| | |
|---|---|
| Number of tanks (max): | 20 |
| Tank designation: | 20 digits (alphanum) |
| Capacity per tank (l): | 99999 |

***Nozzle-valve-pulser***

| | |
|---|---|
| Number of nozzle valves (maximum): | 8 |
| Nozzle valve designation: | 20 digits (alphanum) |
| Maximum settable dispensing quantity (l): | 999,99 |

***Specification***

Delivery contents:

- Software and operating instructions on CD-ROM
- SD-card

***Special features***

- Can be configured as Master- or Slave terminal
- Up to 8 terminals can be connected over the CAN-bus
- Up to 64 dispensing/delivery positions are possible
- Up to 10 subnets can be managed through the PC application
- User identification possible by PIN or RFID card
- User friendly PC application for configuring and setting up tanks, content, users and nozzles
- The PC application checks once a day whether an update is available (free)
- Vehicle selection list pre-settable
- Tank-level warning stop level settable
- Continuous data exchange between PC and Terminal
- All dispensing operations data can be easily read at the PC and exported to other applications for analysis
- Connection of a statement printer possible
- Connection of an RFID card reader possible

## *OMS components*

36 700 Terminal
Can be configured as Master- or Slave terminal

36 704 Nozzle valve-pulser-NEF

36 708 Dispensing valve-IPG-NEF
for anti-freeze

36 707 Dispensing valve-IPG-NEF
for Urea

36 706 Dispensing valve-IPG-NEF
for Diesel

36 702 Power supply
230 V AC 50/60 Hz-24 V DC

36 710 Receipt printer


36 712 RFID card reader for PC
TS-HR38-USB


36 714 RFID card reader for terminal
TS-HR38-TTL


36 716 RFID card

19 412 Overflow protection acc. to German WHG regulations
L 500 mm-3/4"-230 V 50 Hz

36 705 Pneumatic solenoid valve
3/2 closed-1,5-8 bar


36 730 Relay for 230-V-pump control
24 V DC

other accessories under: **www.fmtag.com**