

# Manual

# Mobility Package V5.0

for

# Reinhardt Weather Stations



**REINHARDT System- und  
Messelectronic GmbH**  
Bergstr. 33, D-86911 Dießen-Obermühlhausen  
Tel. 0049 - 8196 - 934100 or 7001

E-Mail: [wetter@reinhardt-testsystem.de](mailto:wetter@reinhardt-testsystem.de)  
WEB: [www.reinhardt-wetterstationen.de](http://www.reinhardt-wetterstationen.de)

## Table of contents

<b>1 For compliance</b> .....	<b>4</b>
1.1 Usage.....	4
1.2 Safety instructions.....	4
1.3 Mounting.....	4
<b>2 Commissioning</b> .....	<b>5</b>
2.1 Content of the mobility package.....	5
2.2 Hardware Installation.....	6
2.3 Setting up the measuring station.....	7
2.31 Internal cabling.....	8
2.4 Software Installation.....	8

# Manual Mobility Package for Weather Stations



**Mobility Package for Reinhardt Weather Stations**

# Manual Mobility Package for Weather Stations

## 1 For compliance

### 1.1 Usage

The mobility package for Reinhardt weather stations and sensors (MWS 55V, MWS 88 and sensors series 55 or 1MV) includes a tripod with an adjustable telescope fitting and 1" thread connecting piece for mounting a Reinhardt weather station or sensor and a spray water protected case with insets of foamed material for safe transport of your Reinhardt weather station.

The tripod is used to place the weather station for short time measurements at changing localities.

If you need to perform longtime measurements and leave the weather station unsupervised, the tripod in any case must be guyed with the 3 tightropes to prevent the instruments from falling down in case of wind or other disturbances!

#### **CAUTION:**



The mobility package is NOT intended for storing the weather station for longer periods of time!!! Due to the outgassing of the foam inserts and the adhesive in the case, the humidity sensor drifts irreversibly over time and the measured values of the humidity sensor are no longer reliable!

### 1.2 Safety instructions



The instruments are manufactured in accordance with modern technical standards and can be operated without danger when used as directed.



Damage caused by non-observance of this operating manual can lead to forfeiture of warranty. REINHARDT System- und Messelectronic is not liable for subsequent damage.



REINHARDT System- und Messelectronic is not liable for damage of items or persons caused by improper handling or non-observance of the safety instructions! In such cases any guarantee claims shall become null and void.



Dear customer, the following safety and hazard notices not only protect your health, but also the the appliance. Please read the following points carefully.



Do not leave the packaging material lying around. These parts are dangerous toys in the hands of children.

### 1.3 Mounting

The mounting of the weather station or sensor is performed onto the 1" thread connecting piece. The tripod must have a secure stand and should be guyed with the 3 enclosed tightropes. If this cannot be done, the assembly must not be left unsupervised for in case of blasts of wind or strokes the tripod may fall down and the mounted weather station may be damaged.

If your weather station or sensor includes a winddirection sensor, the northmarker is to be aligned to North for correct winddirection measurement!



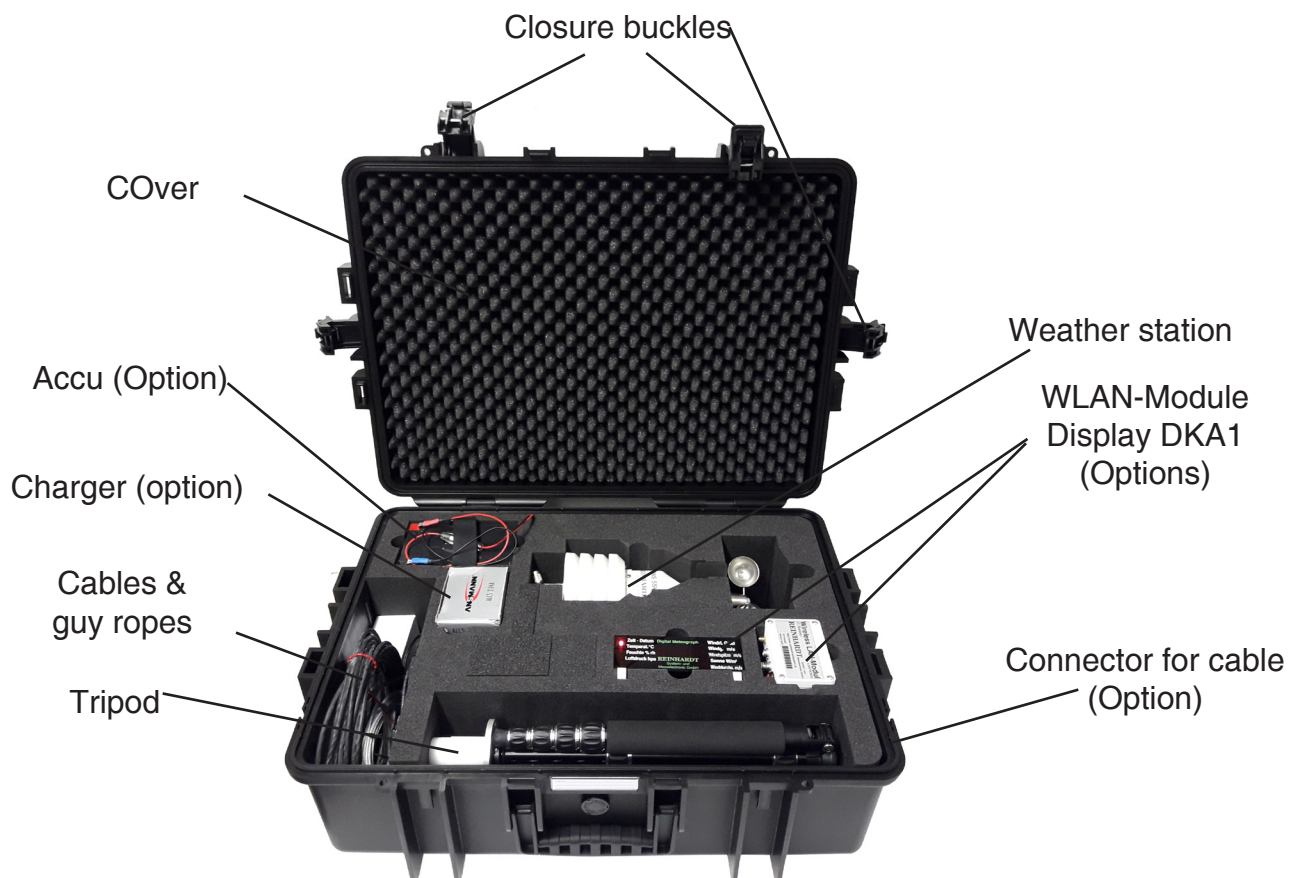
CAUTION: Don not fit the tripod legs with big force! You will destroy the fine threads of the fittings! Destruction of the fine threads caused by too big force is not covered by warranty!

# Manual Mobility Package for Weather Stations

## 2 Commissioning

### 2.1 Content of the mobility package

To open the case, first press the locking lever down and then pull the closure buckle upwards to unlock the case.



# Manual Mobility Package for Weather Stations

## 2.2 Hardware Installation

If your Mobility package is equipped with accu and internal cabling, the weather station can be operated up to 2 days with the accu in the case. The accu is connected to the internal cable and the weather station to the receptacle at the case via the 1:1 cable. So you can collect data with the case closed.

At the internal cable there is a 9-pole D-SUB female connector for connection to a serial port RS-232 to read data from the weather station.



After placing the tripod the weather station is mounted on top of the tripod, aligned to north and fixed with the 2 screws at the socket of the weather station.

The tripod should be anchored with the 3 enclosed ropes to avoid drop of the tripod in case of wind.



When the assembly is finished, the weather station is connected to the power supply and the PC. **CAUTION! DO NOT MIX UP THE POWER CABLE FOR THE WEATHER STATION IS NOT PROTECTED AGAINST POLARITY REVERSAL AND WILL BE DAMAGED IN CASE OF POLARITY REVERSAL OF POWER SUPPLY !!**

You will find details on connection in the respective manual of the weatherstation or sensor.

The weather stations MWS 55V, MWS 88 and sensor series 55 have got a batterie powered clock which allows logging data without the need of connecting a computer to the weather station.

Immediately after connecting the cable with power supply to the station it will start storing data in it's data logger in the preset storage interval.

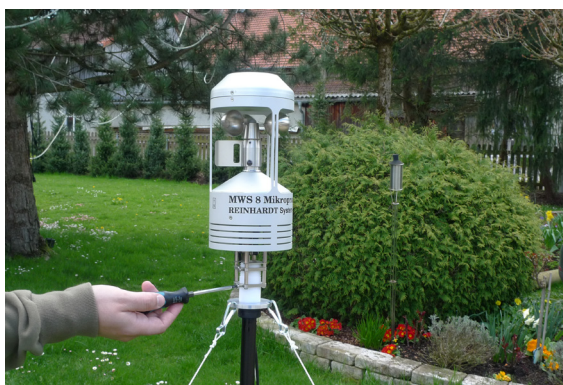
# Manual Mobility Package for Weather Stations

## 2.3 Setting up the measuring station

In the mobility package the weather station with accu, tripod, cables and ropes can be kept. First of all the tripod is set up and anchored.



Then the weather station is mounted on top of the tripod, orientated to north and fixed on the tripod with the 2 screws at the socket. Please take care that the tripod stands fixed on the ground to avoid dropping of the tripod in case of wind. With internal cabling you may run a laptop in parallel to the measurement.



For unsupervised operation you can close the case and run the system without computer at the connector at the case.

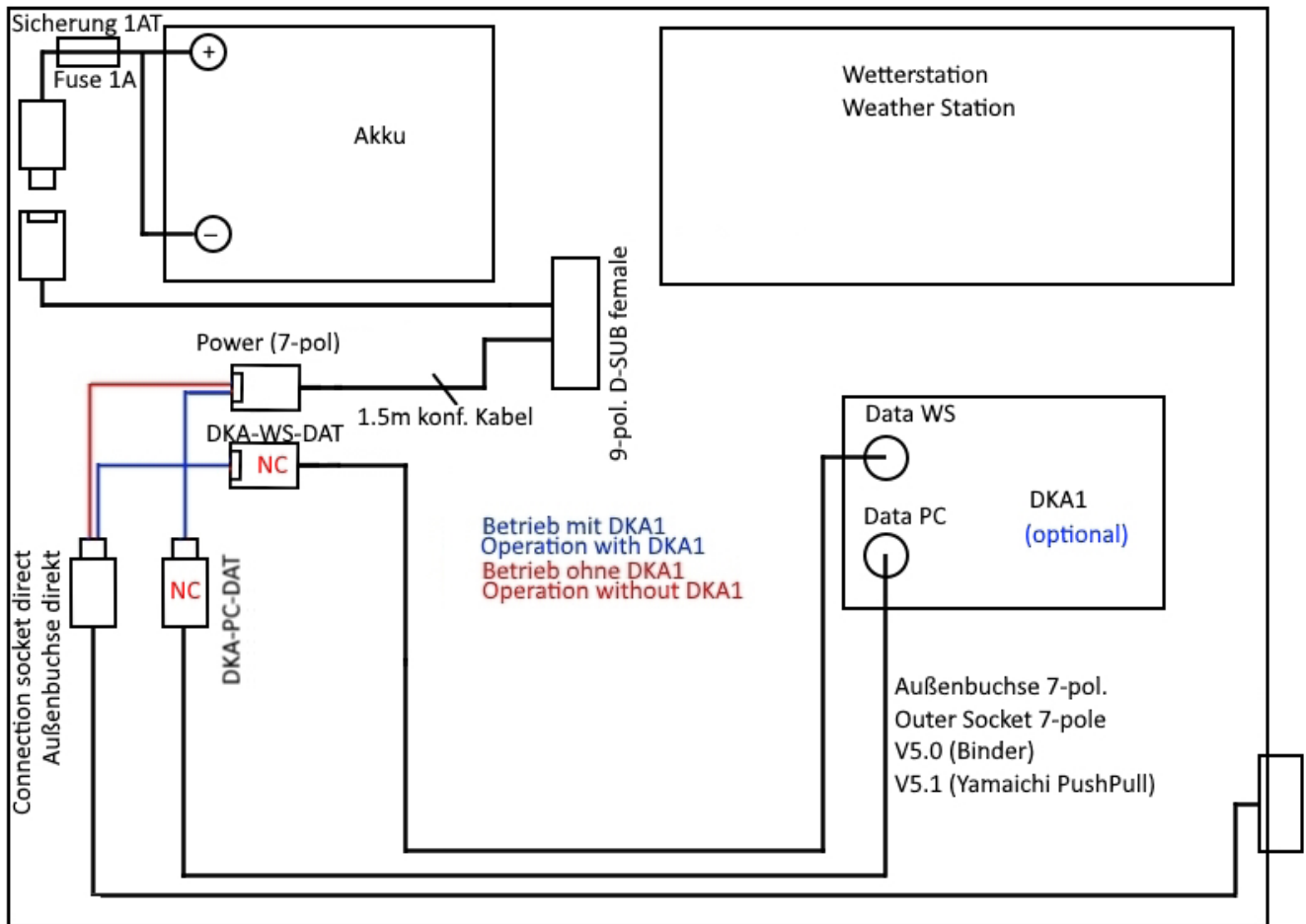
The weather stations MWS 55V, MWS 88 and sensors series 55 have got a batterie powered clock which allows automatic logging immediately after the power cable is connected.

The data can be read later from the logger with the weather32 software.

You will find details on the tripod in the enclosed manual of the respective manufacturer.

# Manual Mobility Package for Weather Stations

## 2.31 Internal cabling



Verkabelung Mobilitätspaket V5.0 / V5.1  
Cabling Mobility Package V5.0 / V5.1

To operate the station with WLAN module, connect the 10m 1:1 cable with one plug to the case and with the other plug to the WLAN module (Power/Data).

Connect the short 1:1 cable to the WLAN module (station) and to the weather station.

For operation without WLAN module with cable and power supply only, use the assembled cable and the short adapter with 2 sockets and either the short or long 1:1 cable.

## 2.4 Software Installation

You learn the instructions for installation and initial operation of the software from the software-manual also on this USB-Stick.

*I&OE / Specifications subject to change without prior notice !*  
05/24