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› TFA Dostmann RAIN Pro 35.1160.01 Radio Weather Station User Manual

TFA Dostmann 35.1160.01

TFA Dostmann RAIN Pro 35.1160.01 Radio Weather Station

User Instruction Manual

INTRODUCTION

The TFA Dostmann RAIN Pro 35.1160.01 is a comprehensive radio weather station designed to provide accurate and real-time weather data for your home and garden. This device measures outdoor temperature, humidity, and rainfall via dedicated external sensors, while also monitoring indoor temperature and humidity. It features a clear display with weather forecasts, atmospheric pressure trends, and a radio-controlled clock with full date and weekday display. Adjustable alarm functions for temperature, humidity, and rain ensure you are always informed about significant weather changes.

SAFETY INFORMATION

- Read the entire instruction manual carefully before using the device.
- Keep this manual for future reference.
- Do not expose the main unit to extreme temperatures, direct sunlight, or high humidity. It is designed for indoor use.
- The outdoor sensors are weather-resistant but should be placed in locations that minimize direct exposure to harsh elements for prolonged periods.
- Use only the specified battery type (AA) and ensure correct polarity.
- Do not mix old and new batteries, or different types of batteries.
- Remove depleted batteries promptly to prevent leakage and damage.
- Dispose of batteries according to local regulations. Do not dispose of them in household waste.
- Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.
- Keep the device and its components out of reach of children.

PACKAGE CONTENTS

Please check that all components are present and in good condition:

- 1 x Base Station (Main Display Unit)
- 1 x Thermo-Hygro Sensor (Model 30.3249.02)
- 1 x Rain Gauge (Model 30.3233.01)
- Instruction Manual

Note: 7 x 1.5V AA batteries are required for operation and are not included in the package.

PRODUCT OVERVIEW



The complete TFA Dostmann RAIN Pro weather station system, showing the main display unit, the wireless thermo-hygro sensor, and the wireless rain gauge.



Front view of the main display unit, showcasing its large, easy-to-read LCD screen with various weather data points.



Rear view of the main display unit, highlighting the battery compartment cover and keyholes for wall mounting.



The wireless thermo-hygro sensor, responsible for measuring outdoor temperature and humidity, shown with its stand.



The wireless rain gauge, designed to accurately measure rainfall and transmit data to the main unit.

Main Display Unit

The central unit displays all collected data, including indoor and outdoor temperature/humidity, rainfall, time, date, and weather forecasts. It features a large LCD screen for easy readability and control buttons for settings and data review.

Thermo-Hygro Sensor (30.3249.02)

This wireless sensor measures outdoor temperature and humidity. It transmits data to the main unit via 433 MHz frequency. It can be placed up to 100 meters away from the main unit in an open area. Up to three such sensors can be connected (additional sensors sold separately).

Rain Gauge (30.3233.01)

The wireless rain gauge collects and measures precipitation. It sends rainfall data to the main unit, which then displays current, hourly, daily, weekly, monthly, and total rainfall amounts. It should be placed in an open area away from obstructions.

SETUP GUIDE

1. Battery Installation

- Main Unit:** Open the battery compartment on the back. Insert 4 x 1.5V AA batteries, observing the correct polarity (+/-). Close the compartment.
- Thermo-Hygro Sensor:** Open the battery compartment. Insert 2 x 1.5V AA batteries, observing the correct polarity. Close the compartment.
- Rain Gauge:** Open the battery compartment. Insert 1 x 1.5V AA battery, observing the correct polarity. Close the compartment.

Upon battery insertion, the main unit will power on and begin searching for the radio signal and external sensors. The sensors will automatically transmit their data.

2. Sensor Placement

- Thermo-Hygro Sensor:** Place the sensor outdoors in a shaded area, protected from direct sunlight and rain, to ensure accurate temperature and humidity readings. Ensure it is within 100 meters of the main unit and free from major obstructions.
- Rain Gauge:** Mount the rain gauge in an open, elevated area where it can collect rainfall without obstruction from trees, buildings, or other structures. Ensure it is level for accurate measurement.

3. Radio-Controlled Clock Synchronization

The main unit will automatically attempt to synchronize with the DCF radio time signal. This process may take several minutes or hours depending on your location and signal strength. Once synchronized, the time and date will be set automatically. You can manually adjust the timezone if needed.

OPERATING INSTRUCTIONS

Display Overview

The main display is divided into several sections:

- Forecast:** Weather symbols (sunny, partly cloudy, cloudy, rainy, stormy) indicate the predicted weather for the next 12-24 hours based on atmospheric pressure trends.

- **Time & Date:** Displays the current time, date, and day of the week (available in 8 languages: German, English, French, Italian, Dutch, Spanish, Swedish, Czech).
- **Indoor Data:** Shows current indoor temperature and humidity.
- **Outdoor Data (CH1):** Displays current outdoor temperature and humidity from the primary thermo-hygro sensor. If multiple sensors are connected, you can switch between channels.
- **Rainfall Data:** Shows current rainfall (last hour), 24-hour rainfall, 7-day rainfall, current month's total, current year's total, and total historical rainfall. A graphical representation of current rainfall is also shown.

Setting Alarms

The station allows you to set adjustable alarms for temperature, humidity, and rainfall. For example, you can set an alarm for freezing temperatures or excessively high humidity (mold risk).

1. Press the "ALARM" button to cycle through alarm types (Temperature, Humidity, Rain).
2. Use the "+" or "-" buttons to adjust the alarm threshold.
3. Press "SET" or "ALARM" again to confirm and activate the alarm.

Viewing Historical Data

The station stores maximum and minimum values for temperature and humidity, along with the time and date of their occurrence. Rainfall history is also available monthly.

- Press the "MAX/MIN" button to view recorded maximum and minimum values.
- Use the "+" or "-" buttons to navigate through different historical periods for rainfall data.

MAINTENANCE

- **Battery Replacement:** Replace batteries in all units when the low battery indicator appears on the display. Always replace all batteries in a unit at the same time.
- **Cleaning:**
 - Wipe the main unit and sensors with a soft, damp cloth. Do not use abrasive cleaners or solvents.
 - Regularly check and clean the rain gauge funnel to ensure it is free from leaves, debris, or insects that could obstruct water flow and affect accuracy.
- **Storage:** If storing the device for an extended period, remove all batteries to prevent leakage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No display on main unit.	Batteries are dead or incorrectly inserted.	Check battery polarity and replace all batteries with new ones.

Problem	Possible Cause	Solution
Outdoor data (temperature/humidity/rain) not displayed or inaccurate.	Sensor out of range, low sensor battery, or interference.	<ol style="list-style-type: none"> 1. Move sensor closer to the main unit. 2. Replace sensor batteries. 3. Ensure no large metal objects or electronic devices are between the sensor and main unit. 4. Re-synchronize sensors by removing and reinserting batteries in both the main unit and sensors.
Incorrect time/date.	Radio signal interference or initial synchronization failed.	<ol style="list-style-type: none"> 1. Place the main unit near a window for better signal reception. 2. Allow up to 24 hours for automatic synchronization. 3. Manually set the time and date if the radio signal is consistently unavailable. 4. Adjust timezone settings.
Rainfall readings are incorrect or zero.	Rain gauge obstructed or not level.	<ol style="list-style-type: none"> 1. Clear any debris from the rain gauge funnel. 2. Ensure the rain gauge is mounted on a level surface. 3. Check rain gauge battery.

SPECIFICATIONS

Model Number:	35.1160.01
Brand:	TFA Dostmann
Indoor Temperature Range:	0°C to +50°C (32°F to 122°F)
Outdoor Temperature Range:	-40°C to +60°C (-40°F to 140°F)
Indoor Humidity Range:	10% to 99% RH
Rainfall Measurement Range:	0 to 1999.9 mm
Max. Transmission Range:	100 m (open field)
Transmission Frequency:	433 MHz
Power Supply:	7 x 1.5V AA batteries (not included)
Dimensions (L x W x H):	174 x 33 x 162 mm (Main Unit)
Weight:	269 g (Main Unit)
Material:	Plastic

WARRANTY AND SUPPORT

This TFA Dostmann product is manufactured with high-quality standards. Spare parts availability is guaranteed for **1 year** from the date of purchase. For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact your retailer or the official TFA Dostmann customer service. Please retain your proof of purchase for warranty purposes.

