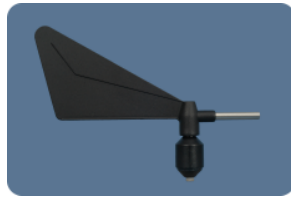


# ***Instruction Manual***

## ***Wind Vane model MW 42***



## IMPORTANT USER INFORMATION

Reading this entire manual is recommended for full understanding of the use of this product.



Should you have any comment on this manual we will be pleased to receive them at:

Mierij Meteo Nederland B.V.

Weltevreden 4c 3731 AL De Bilt Holland

P.O. Box 97 3730 AB De Bilt Holland

Phone + 31 (0) 30 2200064

Fax + 31 (0) 30 2204264

Email [info@mierijmeteo.nl](mailto:info@mierijmeteo.nl)

Mierij Meteo reserves the right to make changes to the specifications without prior notice.

## WARRANTY AND LIABILITY

Mierij Meteo guarantees that the product delivered has been thoroughly tested to ensure that it meets its published specifications. The warranty included in the conditions of delivery is valid only if the product has been installed and used according to the instructions supplied by Mierij Meteo.

Mierij Meteo shall in no event be liable for incidental or consequential damages, including without limitation, lost profits, loss of income, loss of use and other related exposures, however caused, arising from the faulty and incorrect use of product.

## **COPYRIGHT © 2008 Mierij Meteo**

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, without permission in written form from the company



## DECLARATION OF CONFORMITY

According to EC guideline 89/336/EEC

we

**Mierij Meteo BV**

declare under our sole responsibility that the product

**Wind Vane MW 42**

to which this declaration relates is in conformity with the following standards

**EN 50081 -1**

**EN 50082-1**

**EN 55022**

following the provisions of the directive.

**Mierij Meteo BV Weltevreden 4c 3731 AL  
de Bilt Research & Development**



**Ing. A.Hagedoorn**

<b>Table of contents</b>	page
<b>IMPORTANT USER INFORMATION.....</b>	<b>2</b>
<b>Declaration of Conformity .....</b>	<b>3</b>
<b>1. Introduction.....</b>	<b>5</b>
<b>2. Wind Vane model MW 42.....</b>	<b>5</b>
<b>2.1 CONNECTION DIAGRAM WIND VANE MODEL MW 42 .....</b>	<b>5</b>
<b>2.2 GRAY CODE TABLE .....</b>	<b>5</b>
<b>2.3 INSTALLATION .....</b>	<b>6</b>
<b>2.4 DIAGRAM.....</b>	<b>6</b>
<b>3. Specifications Wind Vane model MW 42 .....</b>	<b>7</b>

## 1. INTRODUCTION

This document describes Wind Vane model MW 42. This Windvane is powered with 8 VDC and has a 4 bits parallel gray code output.

## 2. WIND VANE MODEL MW 42

### 2.1 CONNECTION DIAGRAM WIND VANE MODEL MW 42

Cable: LiYY 7 x 0,14 mm<sup>2</sup>

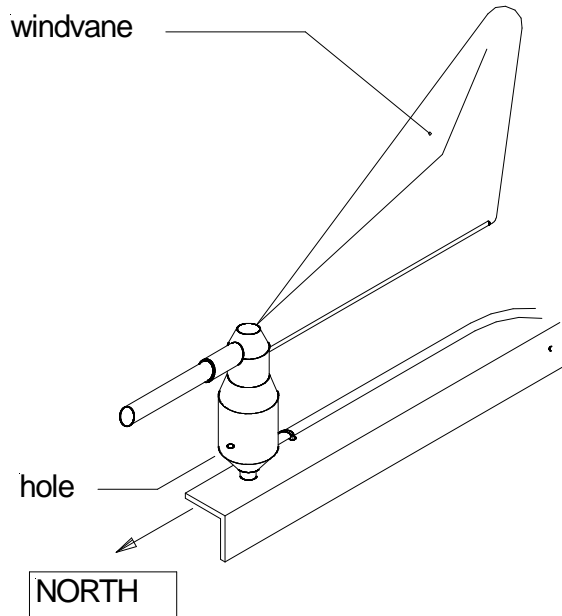
Color	Signal
White	WD2
Brown	Ground
Green	WD0
Grey	WD3
Pink	+V ( 8 Vdc)
Blue	WD1

### 2.2 GRAY CODE TABLE

Winddirection	Degrees (°)	WD3	WD2	WD1	WD0
N	0	0	0	0	0
NNE	22,5	0	0	0	1
NE	45	0	0	1	1
ENE	67,5	0	0	1	0
E	90	0	1	1	0
ESE	112,5	0	1	1	1
SE	135	0	1	0	1
SSE	157,5	0	1	0	0
S	180	1	1	0	0
SSW	202,5	1	1	0	1
SW	225	1	1	1	1
WSW	247,5	1	1	1	0
W	270	1	0	1	0
WNW	292,5	1	0	1	1
NW	315	1	0	0	1
NNW	337,5	1	0	0	0

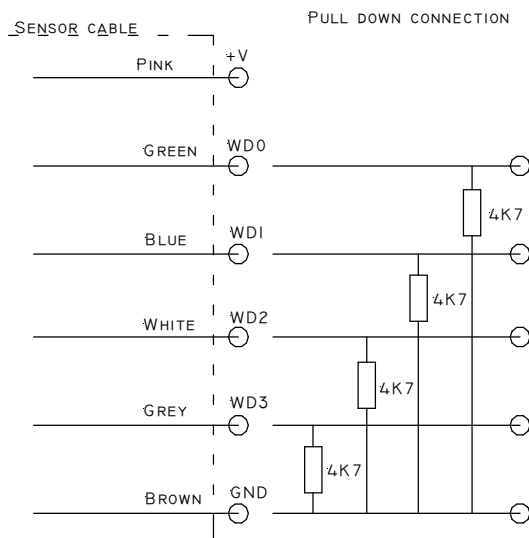
### 2.3 INSTALLATION

Mount the Wind Vane vertically to a bracket and fix it with the nut on the bottom side. Note that the small hole must point to the North. Use a compass for that and fix it firm.



### 2.4 DIAGRAM

#### MEASUREMENT CONNECTION



### 3. SPECIFICATIONS WIND VANE MODEL MW 42

Measurement principle:	Optical
Measurement range:	0..360°
Resolution:	22,5°
Supply:	8 VDC
Output signals:	Open Emitter, 4-bits parallel Grey-code, (place pull-down resistor 4K7 )
Material:	PVC en stainless steel.
Dimensions:	155 x 220 x 28 mm
Cablelength:	20 meter standard, able to enlarge up to max. 100 meter.
Positioning:	Vertical freestanding. Markhole in sensor at north side.