

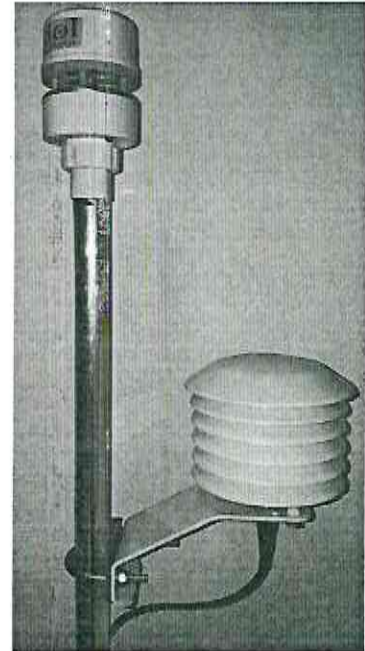


PRODUCT INFORMATION

Weather station DOL-58

New weather station to determine the weather conditions on site.

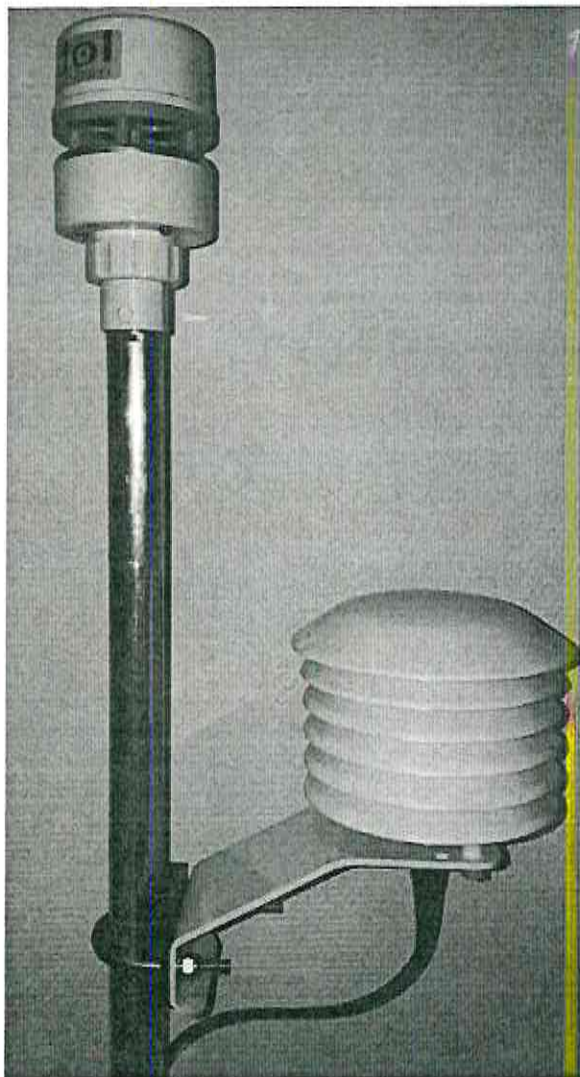
The weather station allows the consideration of the local weather conditions for the ventilation control.



 BUSINESS UNIT <input checked="" type="checkbox"/> Egg <input checked="" type="checkbox"/> Poultry <input checked="" type="checkbox"/> Pig	RELEASED <input type="checkbox"/> Regionally <input checked="" type="checkbox"/> Internationally	NUMBER OF PUBLICATION 01-0044 <small>(per region)</small> PUBLISHED ON 13.12.2016 <small>(date)</small>	NO. OF PAGES INCL. COVER 7			
REGION OF APPLICATION <input checked="" type="checkbox"/> Asia <input checked="" type="checkbox"/> China <input checked="" type="checkbox"/> Europe <input checked="" type="checkbox"/> India <input checked="" type="checkbox"/> Latin America <input checked="" type="checkbox"/> MEA <input checked="" type="checkbox"/> North America <input checked="" type="checkbox"/> Russia Further limitations/exceptions of countries:						
LANGUAGES <input checked="" type="checkbox"/> English <input type="checkbox"/> Chinese <input type="checkbox"/> French <input checked="" type="checkbox"/> German <input type="checkbox"/> Russian <input type="checkbox"/> Spanish <input type="checkbox"/> Others						
RELEASED BY NAME 1: Heinz Südkamp, Climate Central Technologies NAME 2: Jan Ronnebaum, Product Owner, Central Technologies NAME 3: _____ NAME 4: _____						
SIGNATORY RULES <table border="0"> <tr> <td> Regional product (only for one region) Name 1: Chief Engineer of BU (global) Name 2: Employee Customer Engineering (region) </td> <td> International product (only more than one region) Name 1: Product Manager (global) Name 2: Employee Engineering (global or regional) </td> <td> Products Central Technologies Name 1: Product Manager CT or 1-3 Product Manager(s) BU (global)* Name 2: Product Owner CT </td> </tr> </table> <p style="text-align: right;"><small>*only if there is no Product Manager CT in charge</small></p>				Regional product (only for one region) Name 1: Chief Engineer of BU (global) Name 2: Employee Customer Engineering (region)	International product (only more than one region) Name 1: Product Manager (global) Name 2: Employee Engineering (global or regional)	Products Central Technologies Name 1: Product Manager CT or 1-3 Product Manager(s) BU (global)* Name 2: Product Owner CT
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In order to ventilate a house optimally by means of natural ventilation, it is important to know the local weather exactly. For this purpose we now offer the weather station DOL-58. With the weather station, the house computer (e.g. Viper Touch - from version 4.2.1) can react to the weather conditions.



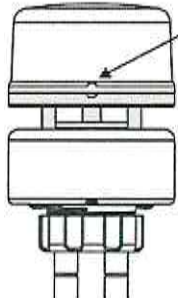
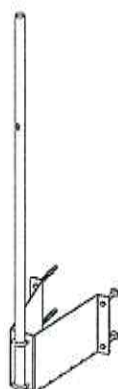
 NORDANZEIGE	Weather station DOL-58, wind direction, velocity, air pressure 0-10V (60-44-0232)
	11 - 30 VDC supply voltage
	-25°C – 55°C temperature
	800 – 1100 hPa (0.8 – 1.1 bar) air pressure
	0-40 m/s wind velocity
	0-360° wind direction

Figure 1: Weather station DOL-58

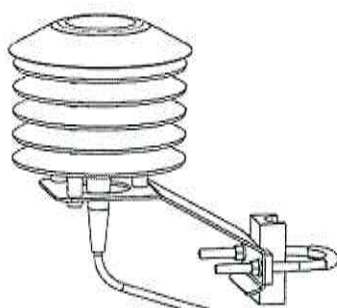
For the weather station DOL-58, a suitable mounting set is available to fasten the sensor to the wall.



Code no.	Description
83-15-2936	Bracket cpl for weather station DOL-58
99-10-3780	Hexagon wood screw 8 x 80 DIN 571 galv.
99-98-3784	Dowel universal UX 10 x 60 without collar
37-80-2011	Washer A 8.4 x 25 x 2.0 DIN 9021 galv.
99-10-1040	Hexagon nut M 8 galv. DIN 934-8
99-10-1317	Hexagon head screw M 8 x 80 galv. DIN 933 8.8
99-20-1176	Hexagon nut M 8 stainless steel DIN 934
99-50-3069	U-bolt stainless steel 8x25/W34/H48
83-14-9743	Tube 26.9 x 2.30-1300 galv. with thread for weather station DOL-58
83-14-9712	Angle bracket for weather station DOL-58

Figure 2: Bracket for weather station

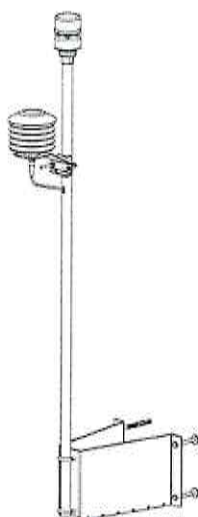
In order to measure the humidity and temperature of the outside air, the DOL-114 sensor can be fastened to the above mentioned mounting set with a radiation protection:



Code no.	Description
60-44-0245	Weather protection for climate sensor outside
60-44-0252	Sensor for humidity of air DOL-114 without plug

Figure 3: Weather protection

For a complete weather station the order must be entered as follows:



Quantity	Code no.	Description
1	60-44-0232	Weather station DOL-58 wind direction, speed, air pressure 0-10V
1	60-44-0252	Sensor for humidity of air DOL-114 without plug
1	60-44-0245	Weather protection for climate sensor outside
1	83-15-2936	Bracket cpl for weather station DOL-58

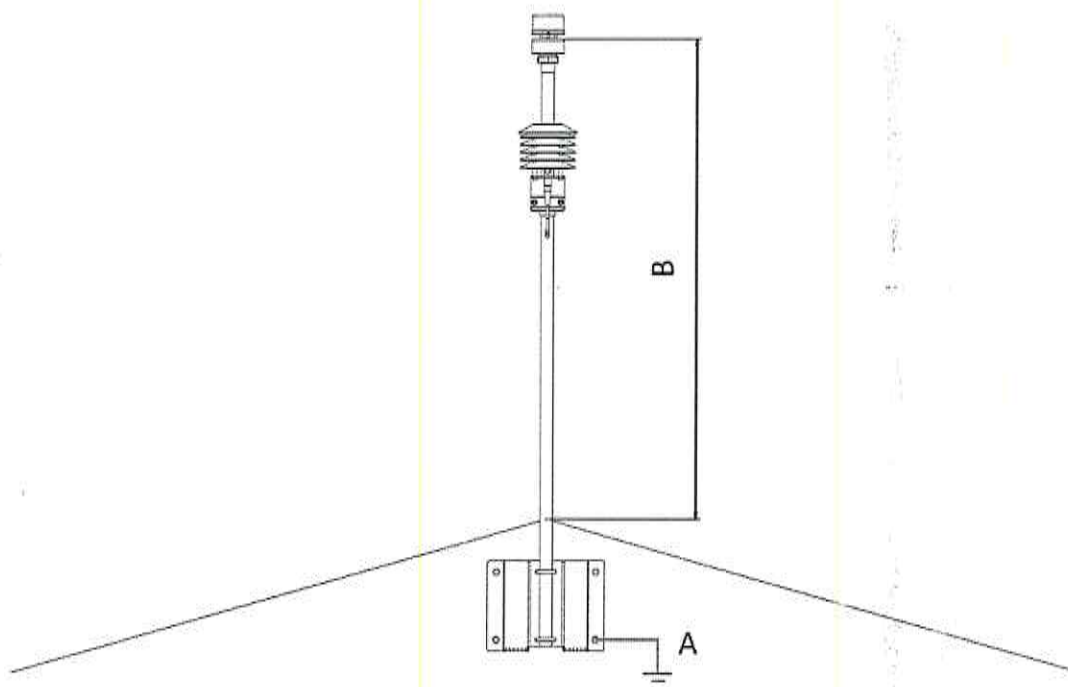


Assembly:

For the assembly consider the following:

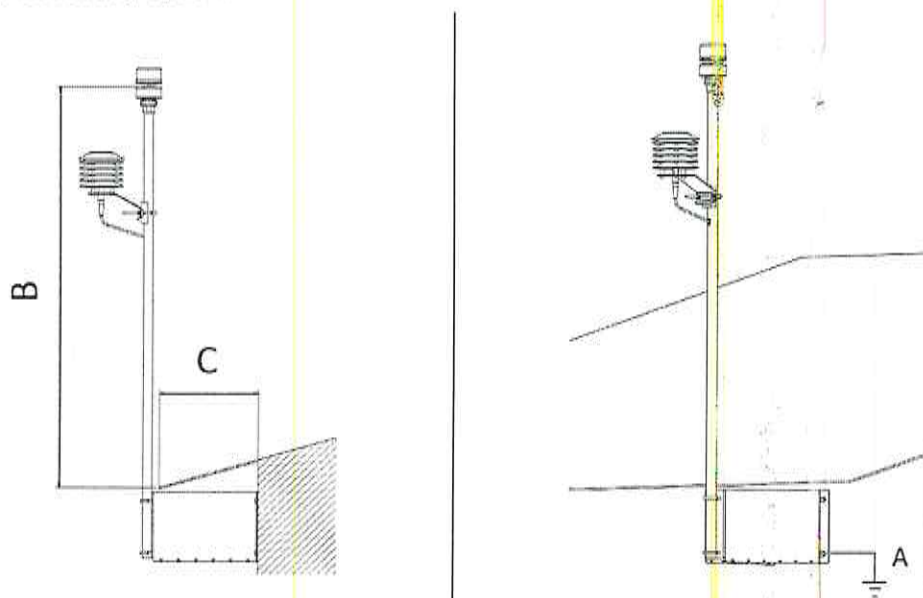
- The pole / tube must be installed 100 % vertically.
- The north indicator (see figure 1) must be aligned to the north.
- Ensure a sufficient earthing (shown in red)

Assembly recommendation



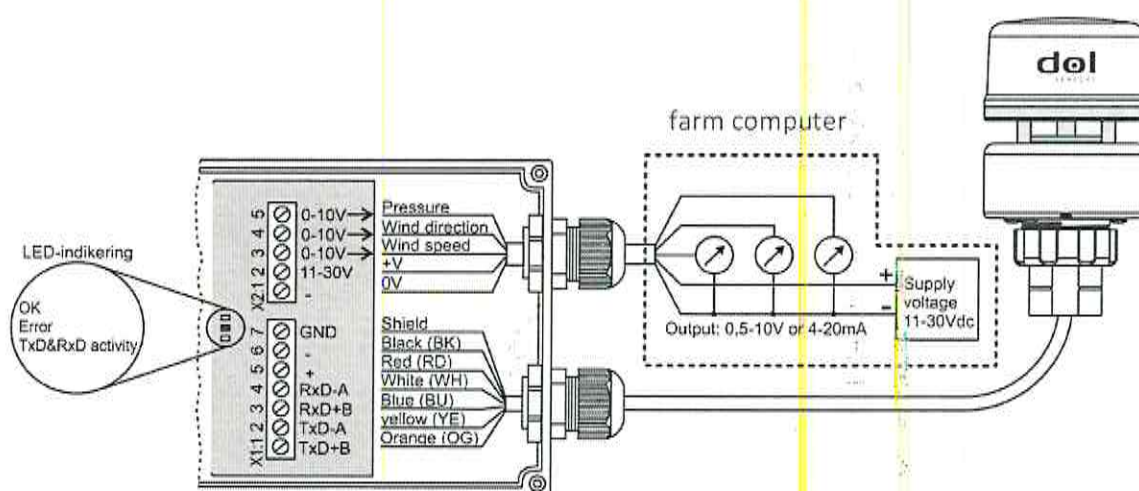
A	Ensure sufficient earthing ($\varnothing 4 \text{ mm}^2$)
B	as high as possible

Alternative assembly option:



A	Ensure sufficient earthing ($\varnothing 4 \text{ mm}^2$)
B	As high as possible, preventing roof and support from touching each other
C	Eave height 280 mm max.

Electrical connection






Technical data

Dimensioning				Output value [V]		Output value [A]	
Wind velocity	Measuring range	0 – 40	m/s	0.5 – 10	VDC	4 – 20	mA
	Resolution	0.05	m/s	11.88	mVDC	20.00	μA
	Precision [0 – 5 m/s]	0.5+10 %	m/s	11.88+10 %	mVDC	200 + 10%	μA
	Precision [5 – 40 m/s]	1.0 or 5 %	m/s	23.75 or 5%	mVDC	400 or 5%	μA
Wind direction	Measuring range	0 – 360	°	0.5 – 10	VDC	4 – 20	mA
	Resolution	0.1	°	2.63	mVDC	4.44	μA
	Precision [2 – 5 m/s]	5.0	°	131.66	mVDC	222.22	μA
	Precision [>5 m/s]	2.0	°	52.67	mVDC	88.89	μA
Air pressure	Measuring range	800 – 1100	hPa	0.5 – 10	VDC	4 – 20	mA
	Resolution	0.1	hPa	3.17	mVDC	5.33	μA
	Precision	± 1.00	hPa	± 31.67	mVDC	± 53.33	μA
Max. cable length				100 m @ 0.75 mm² AWG 18			
				200 m @ 1.50 mm² AWG 15			



Check your knowledge ...

	1. What is the purpose of the marking at the weather station?
A	To see where is the top and the bottom side
B	To align the sensor to the north and thus determine the wind direction
C	To align the sensor