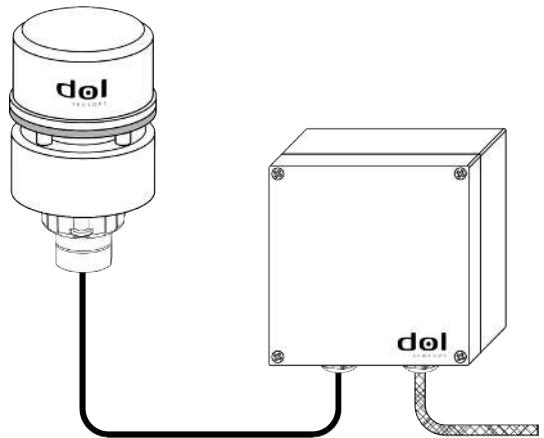


DOL 58

Weather sensor



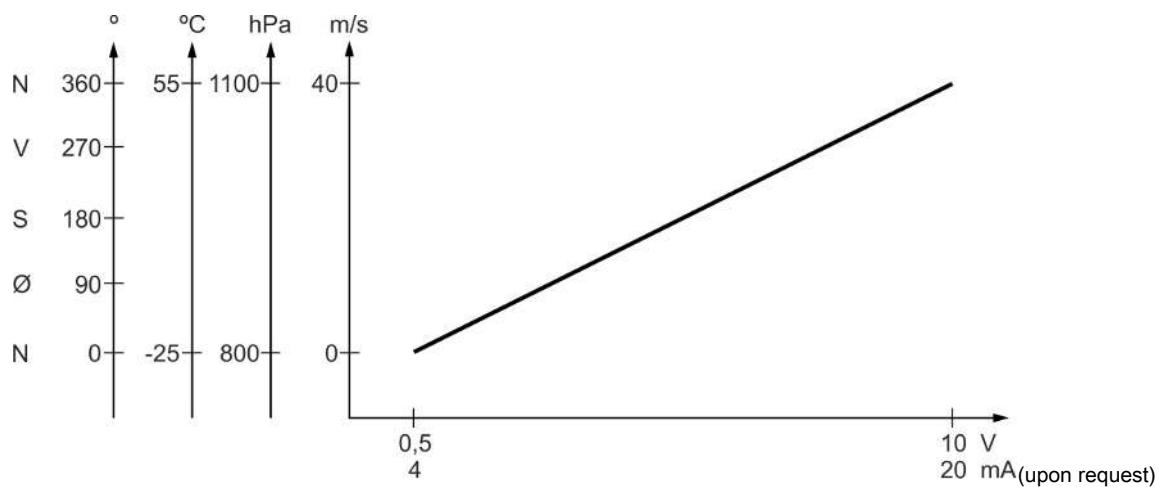
The DOL 58 measures wind direction, wind speed and air pressure/temperature (optional). Wind speed and direction are measured using ultrasound. The weather station thus has no movable parts, which means it is extremely reliable and has an exceptionally long lifetime.

DOL 58 includes:

- Weather sensor
- Connection box
- 5m/16feet 30m/98feet cable for connection between weather sensor and connection box
- Mounting bracket for the weather sensor

DOL 58's connection box has 3 analog outputs:

- Wind direction
- Wind speed
- Air pressure or temperature (supplied upon request)



Connection between weather measurement and the analog outputs.

Product survey



140232 DOL 58 weather sensor

The DOL 58 measures wind direction, wind speed and air pressure/temperature (optional). Wind speed and direction are measured using ultrasound.

Can be used as an extra sensor.



140310 DOL 58 weather sensor 30 m cable

The DOL 58 measures wind direction, wind speed and air pressure/temperature (optional). Wind speed and direction are measured using ultrasound.

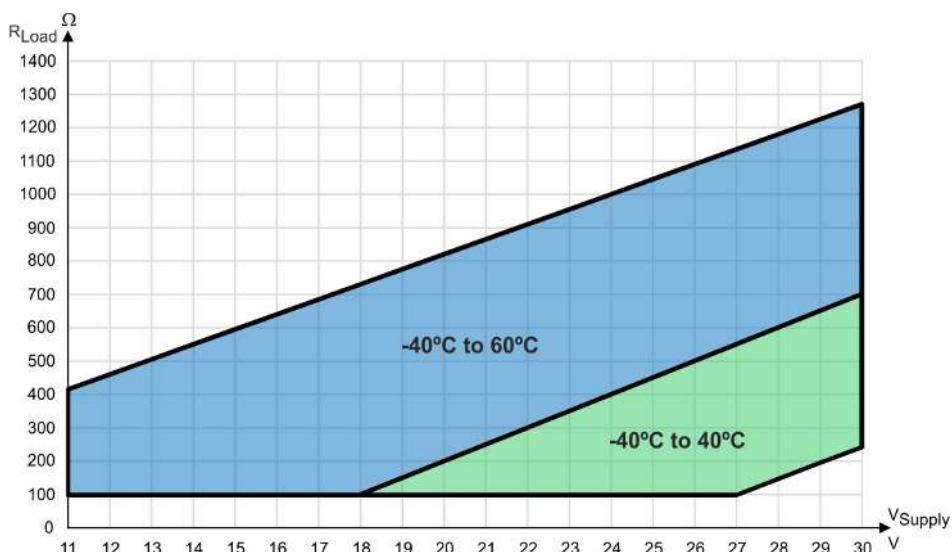
Can be used as an extra sensor.

Technical data

Input measuring range				Voltage output		Current output	
Wind speed at 0-55 °C	Measuring range	0 - 40	m/s	0.5 - 10	VDC	4 - 20	mA
	Resolution	0.05	m/s	11.88	mVDC	20.00	µA
	Accuracy	0 - 5m/s: 0.50 + 10% of reading	m/s	0 - 5m/s: 11.88 or 10% of reading	mVDC	0 - 5m/s: 200 or 10% of reading	µA
		5 - 40m/s: 1.00 or 5% of reading	m/s	5 - 40m/s: 23.75 or 5% of reading	mVDC	5 - 40m/s: 400 or 5% of read- ing	µA
Wind direction at 0-55 °C	Measuring range	0 - 360		0.5 - 10	VDC	4 - 20	mA
	Resolution	0.1		2.63	mVDC	4.44	µA
	Accuracy	2 - 5m/s: 5.00		2 - 5m/s: 131.66	mVDC	2 - 5m/s: 222.22	µA
		>5 m/s: 2.00		>5 m/s: 52.67	mVDC	>5 m/s: 88.89	µA
Barometric pres- sure	Measuring range	800 - 1100	hPa	0.5 - 10	VDC	4 - 20	mA
	Resolution	0.1	hPa	3.17	mVDC	5.33	µA
	Accuracy	+/- 1.00	hPa	+/- 31.67	mVDC	+/- 53.33	µA
Air temperature	Measuring range	-25 - 55	°C	0.5 - 10	VDC	4 - 20	mA
	Resolution	0.1	°C	11.88	mVDC	20.00	µA

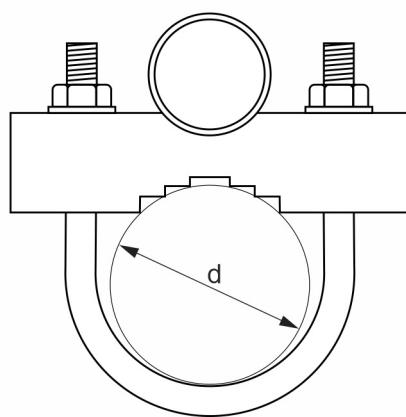
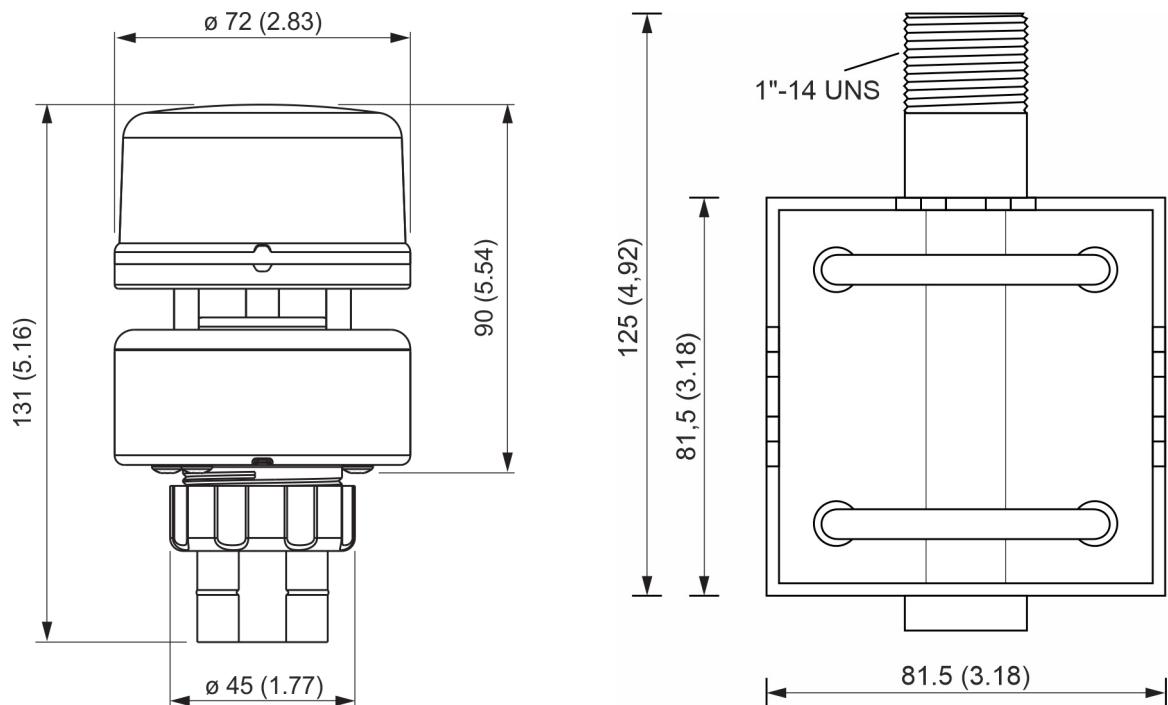
Input measuring range				Voltage output		Current output						
	Accuracy	>2 m/s: +/- 1.1	°C	>2m/s: +/- 130.63	mVDC	>2m/s: +/- 220.00	µA					
Load				500Ω - 10MΩ Recommended load ≥ 100 kΩ		See graph						
Output impedance				<1Ω		n/a						
Output current				<20mA per output (current limited)		n/a						
Max. Cable length at 0.75mm ²				100	m	500	m					
Max. Cable length at 1.50mm ²				200	m	500	m					
Common												
Supply	Voltage	VDC	11 - 30									
	Current	mA	@ 12 V DC Typ. 70mA, max. 130 @ 24 V DC Typ. 50mA, max. 110									
Temperature, operation	°C	-25 - 55										
Shipping weight	kg	1.9										
Shipping dimensions	mm	380 x 185 x 165										
Protection class	IP	Interface box: 65 Weather sensor X6 (Relative humidity/X4)										
Approval		CE										
Mounting	Mast outer diameter Ø 30 to 46 mm (1.18" to 1.81")											

When the wind speed is less than 2 m/s and the temperature is below 0 °C, the readings will be less accurate.

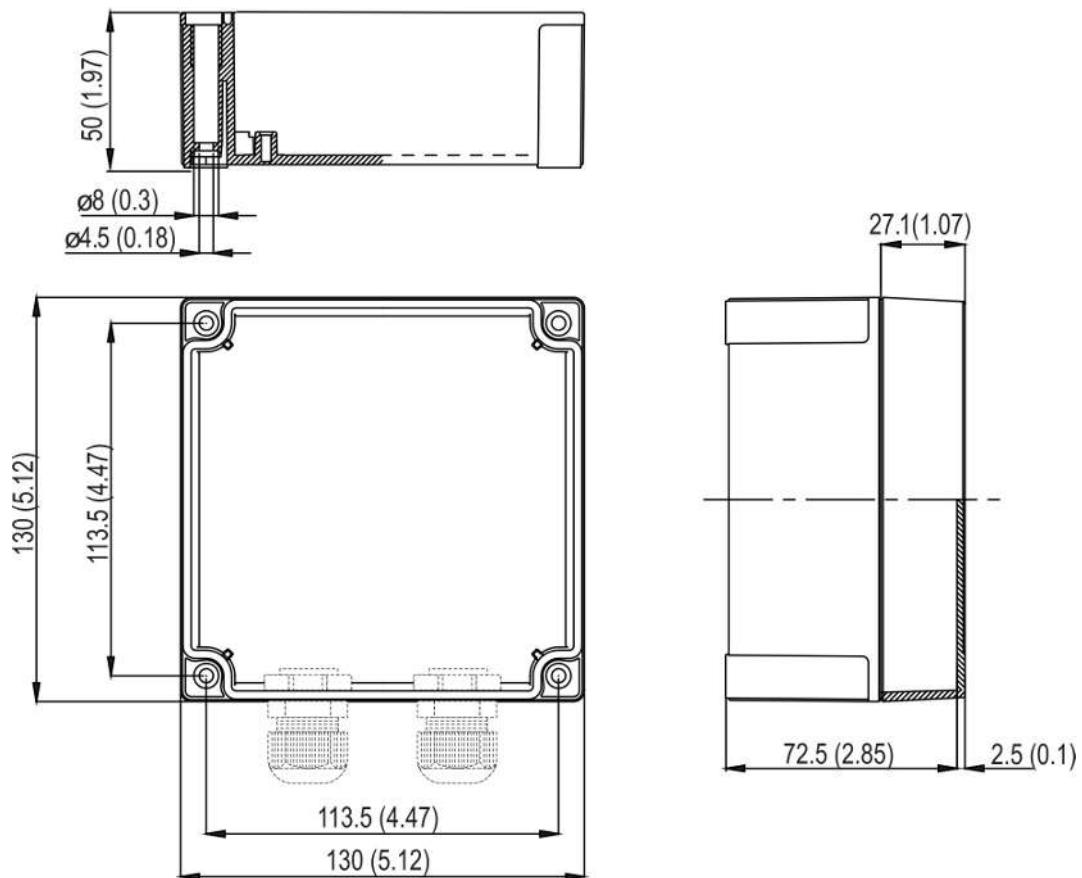


Load resistance and supply voltage.

Dimensions



Mounting bracket dimensions mm (inches).



Interface box dimensions.

