

Description	Order-No.	Technical Data
Wind Speed Transmitters		
Wind Transmitter The wind transmitters is designed for the direction-independent measurement of the horizontal air-flow. The wind transmitter is equipped with a contact-free opto-electronic scanner, which causes an extremely low starting speed. At the output the measuring value is available as digital signal. The heating is electronically controlled. A plug-connection is situated in the shaft of the instrument. The instrument is mounted preferably onto a mast or traverse. All essential parts are made of anodised aluminium, and are additionally varnished.	4.3303.22.xxx .000 .007	Meas. range 0.3 ... 50 m/s Electr. output 3 ... 1042 Hz (live zero) (for datalogger) 3 ... 1042 Hz (no live zero) Load max. 60 m/s Delay distance 5 m Accuracy $\pm 0.3 \text{ m/s} / \pm 2\%$ of m.v. Operating voltage Electronics 4...18 V DC Heating 24 V AC/DC ; 20 W General Ambient temp. -35 ... +80°C Electr. connection with x.xxxx.xx.000 5-pole plug connection with x.xxxx.xx.007 7-pole plug connection Mounting onto mast tube 1 1/2" Fixing boring $\varnothing 50 \times 50 \text{ mm}$ Dimensions $\varnothing 315 \times 230 \text{ mm}$ Protection IP 55 Weight 1 kg
Wind Transmitter This wind transmitter is designed for high wind speeds.	4.3303.22.0xx 008 018	Meas. range 0.5 ... 75 m/s Electr. output 0 ... 754 Hz (live zero) 0 ... 754 Hz (no live zero) Accuracy $\pm 0.5 \text{ m/s} / \pm 2\%$ of m.v. Operating voltage Electronics 4...18 V DC Heating 24 V AC/DC ; 20 W Electr. connection 5-pole plug connection
Wind Transmitter The wind transmitter is equipped with a contact-free opto-electronic scanner. A connected electronics converts the speed-dependent frequency into an analogue output signal.	4.3303.22.xxx .0xx .6xx .x40 .x41 .x60 .x61 .x73	Meas. range 0,3 ... 50 m/s Electr. output 0,3 ... 60 m/s 0 ... 20 mA 4 ... 20 mA 0 ... 1 V 0 ... 10 V 0 ... 5 V Accuracy $\pm 0,4 \text{ m/s} / \pm 2,5\%$ v. Mw. Operating voltage Electronics 15...24 V DC Heating 24 V AC/DC ; 20 W Electr. connection 5-pole plug connection
Wind Transmitter This wind transmitter is equipped with a DC-generator which produces a d.c-voltage with the rotation of the cup star. It is able to operate a respective display instrument directly (without current supply).	4.3105.22.000	Meas. range 0.5 ... 35 m/s Electr. output 0 ... 4.67 mA DC, linear $R_a = 400 \Omega$ Load max. 60 m/s Accuracy $\pm 0.5 \text{ m/s} / \pm 2\%$ v. Mw. Heating 24 V AC/DC; 20 W Electr. connection 5-pole plug connection



Wind Classic



Description

Wind Direction Transmitter

Wind Direction Transmitter

Measuring value transmitter for measuring the direction of the horizontal air flow.

Potentiometer-wind-direction-transmitters are equipped with a sliding potentiometer which offers a theoretically unlimited resolution.

The heating is electronically controlled. A plug-connection is situated in the shaft of the instrument. The instrument is mounted preferably onto a mast or traverse. All main parts are made of anodised aluminium, and are additionally varnished.

Order-No.

4.3120.22.xxx
.012
.018

Technical Data

Potentiometer	Measuring Range
0 - 2000 Ω	358 ° ($\pm 3^\circ$) 5
0 - 400 Ω	-lead circuit
Measuring range	0 - 360°
Resolution	1°
Accuracy	$\pm 1.5^\circ$
Operating voltage	
Potentiometer	12 V DC, max 1.5 W
Heating	24 V AC/DC, max. 20W
Load	max. 60 m/s
Starting value	0.5 m/s at 90°
Damping coefficient	0.2 ... 0.3
Ambient temperature	- 35 ... + 80 °C
Electr. connection	8-pole plug connection
Mounting	onto mast tube 1 1/2"
Dimensions	415 mm high
Protection	IP 55
Weight	1.8 kg



Wind Direction Transmitter

Measuring value transmitter for measuring the direction of the horizontal air flow.

The wind direction transmitter is equipped with an opto-electronic scanner (code disc), which causes an extremely low starting speed, and operates in wear-resistant manner. The digital measuring signals are transformed by an internal measuring transformer.

The output is available as analogue current- or voltage signal.

4.3125.32.xxx
.040
.041
.060
.061
.073

Analogue Output	0 - 20 mA 4 - 20 mA 0 - 1 V 0 - 10 V 0 - 5 V
Measuring range	0 - 360°
Resolution	2,5°
Accuracy	$\pm 2,5^\circ$
Load	max. 60 m/s
Starting value	< 0.6 m/s at 90°
Damping coefficient	0.2 ... 0,3
Operating voltage	14 - 18 V DC
Heating	24 V AC/DC, max. 20 W
Ambient temperature	- 35 ... + 80 °C
Electr. connection	5-pole plug connection
Mounting	onto a mast tube 1 1/2"
Dimensions	415 mm high
Weight	1,8 kg



Wind Direction Transmitter

Measuring value transmitter for measuring the direction of the horizontal air flow.

The position of the wind vane is detected opto-electronically by a code disc, which causes an extremely low starting speed, and operates in wear-resistant manner.



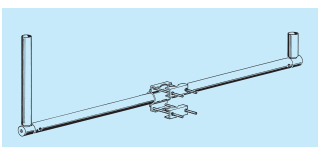



The output is available as serial or as parallel digital signal.

4.3121.32.000
4.3125.32.100

Digital Output	8-bit parallel 8-bit THIES serial
Measuring range	0 - 360°
Resolution	2.5°
Accuracy	$\pm 2.5^\circ$
Load	max. 60 m/s
Starting value	< 0.6 m/s at 90°
Damping coefficient	0.2 ... 0.3
Operating voltage	
Electronics	5 / 3.5 - 18 V DC
Heating	24 V AC/DC, max. 20W
Ambient temperature	- 35 ... + 80 °C
Electr. connection	
with xx.xxxx.000	19 pole plug connection
with xx.xxxx.100	7-pole plug connection
Mounting	onto a mast tube 1 1/2"
Dimensions	415 mm high
Weight	1.8 kg

Wind

Masts and mechanical Accessories

	Description	Order-No.	Technical Data	
	Traverses Traverse for Classic Wind Transmitters For mounting the wind speed transmitter and wind direction transmitter jointly onto a mast. The traverse is connected with plug according to the transmitter combinations.	4.3170.00.xxx000001003	Wind Transmitt. 4.3303.22.000 4.3303.22.000 4.3105.22.000 Material Tube dimensions Fixing boring Horizontal Sensor distance Vertical Sensor distance Total height Weight	Wind Direc. Transm. 4.3120.22.018 4.3121.32.000 4.3120.22.018 steel, galvanised 1 1/2" n. DIN 2448 (Ø 48.3 x 2.6 mm) Ø 50 x 74 mm 0.6 m 0.02 m 0.71 m 6.8 kg
	Traverse for Classic Wind Transmitters For mounting the wind speed transmitter and wind direction transmitter jointly onto a mast. With boring for mounting the lightning rod 4.3100.99.001			
		4.3173.01.001	Material Tube dimensions Fixing boring Horizontal- Sensor distance Vertical Sensor distance Total height Weight	aluminium, anodised DIN 2448 (Ø 48.3 x 2.6 mm) Ø 71 x 74 mm 0.6 m 0,02 m 0.71 m 3 kg
	Traverse for Classic Wind Transmitters For mounting the wind speed transmitter and wind direction transmitter jointly onto a mast.	4.3172.00.000		Sensor distance Vertic. Sensor distance Total height Mast clamp Material Weight 0.6 m approx. 400 mm 650 mm Ø 40 ... Ø 80 mm aluminium 2.8 kg
	Traverse For Small Wind Transmitters For mounting the wind transmitter and wind direction transmitter jointly onto a mast.	4.3171.20.000	Clamping range Sensor distance Material Traverse Gripping clamp Weight	Ø 30 ... Ø 50 mm 0.5 m aluminium stainless steel 0.35 kg
	Traverse for Wind Transmitters compact For mounting the wind speed transmitter and wind direction transmitter jointly onto a mast.	4.3171.30.000 .31.		Clamping range Sensor distance Material Traverse Mounting set Weight Ø 48 Ø 102 mm Ø 116 ... Ø 200 mm 0.8 m aluminium stainless steel 0.35 kg
	Traverse, short For Wind Transmitters compact For mounting the wind speed transmitter and wind direction transmitter jointly onto a mast.	4.3171.40.000 .41.	Clamping range Sensor distance Material Traverse Mounting set Weight	Ø 48 Ø 102 mm Ø 116 ... Ø 200 mm 0.8 m from mast aluminium stainless steel 0.30 kg

Wind Masts and mechanical Accessories

Description

Lightning Rod / Hangers / Holders / Adaptors

Lightning Rod

To be mounted additionally at the telescopic mast, tube or traverse. Protects the wind transmitter against damages caused by lightning strokes.

Suitable for:

Mast or tube with Ø 50 mm

Mast or tube with Ø 50 mm

Mast or tube with Ø 71 mm

Traverse: 4.3173.01.001

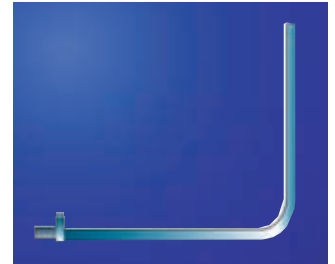
Traverse:

4.3171.30/31/40/41...

Order-No.

Technical Data

Length	Height	Material	Weight
560 mm	800 mm	steel, galvanised	2,4 kg
560 mm	1500 mm	steel, galvanised	4 kg
560 mm	1500 mm	steel, galvanised	4 kg
400 mm	1500 mm	aluminium	2 kg
----	560 mm	stainless steel	0,34 kg



Hanger, 1 m

Hangers are used to mount wind measuring instruments to telescope masts. The extension is 1 m from the mast. The outer end has a holder especially designed for the respective data transmitter.

Mounting by bolting connecting clamps or mast clamps.

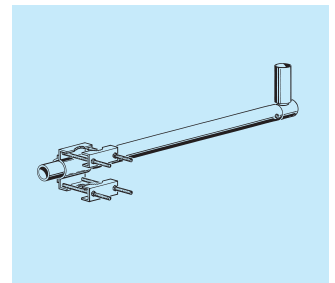
4.3185.xx.003

...00....

...01....

...02....

Clamp range	60-132 mm 40- 80 mm 48- 50 mm
Tube diameter	50 mm
Clamp range	for telescopic masts
Material	aluminium
Weight	1.8 kg (hanger 1 m)

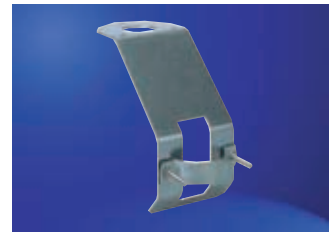


Holder compact

Serves for mounting the wind transmitter compact onto a mast tube.

506347

Material	stainless steel
Clamp range	Ø 35 – 50 mm
Dimensions	80 x 150 mm
Weight	0.35 kg



Adaptor 1" / 1 1/2"

Serves as reducing unit for mounting the wind transmitters of the First Class type onto a traverse tube of a diameter Ø 50 mm.

507620

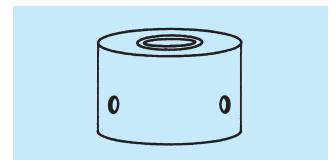
Material	aluminium
Weight	1 kg

Adaptor 1"

The adaptor is used to mount wind measuring instruments of the compact-series to a 1"- tube.

506283

Material	aluminium, anodised
Dimensions	Ø 50 x 40 mm
Weight	0.5 kg



Mounting Set compact

Mounting holder with straps for mounting of power supply units, connection boxes compact, and wind interfaces onto masts or tubes.

506614

506971

Clamping range	Ø 48 –102 mm Ø 116 –200 mm
Material	Stainless steel
Weight	0.18 kg



Please contact us for other accessories, such as cables and cable connections as well as for additional constructions of masts or systems.