


## Ultrasonic Anemometer

Model type	VentusX	
Serial number	001.1218.1611.034	

This is to certify, that this Lufft product has been tested according to the QM of the G. LUFFT Mess- und Regeltechnik GmbH manual in accordance with DIN EN ISO 9001. Ordering specifications are complied with. Execution of instruments / systems as well as testing of accuracy was carried out following LUFFT quality assurance procedures. Quality inspection was successfully passed. This Lufft product has been calibrated according to specifications using references traceable to international standard units administrated by the national metrology institutes like PTB, NIST, NPL or other recognized national standard laboratories.

### Wind direction and speed



Angular deviation (0°...360° in steps of 22,5°)

	2,0 m/s	5,0 m/s	10,0 m/s	20,0 m/s	50,0 m/s	Status
RMSE	1,0°	0,9°	0,4°	0,6°	0,8°	✓

### Wind speed

	2,0 m/s	5,0 m/s	10,0 m/s	20,0 m/s	50,0 m/s	Status
RMS	2,0 m/s	5,0 m/s	10,0 m/s	20,0 m/s	49,8 m/s	✓

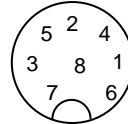
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Datum Date  06.12.2018	Qualitätssicherung Quality control  i. V. Rolf Großmann	Bearbeiter Person in charge  i. A. Bernhard Lenz
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# Connections

There is an 8 pole screw connector on the underside of the equipment. This serves to connect the supply voltage and interfaces by a connection cable.

Equipment connector:



View on cable socket solder connection

Pin assignment full duplex:

1	Y	Serial interface RXD-	pink
2	B	Serial interface TXD-	yellow
3		Control connection	red
4	Z	Serial interface RXD+	grey
5	A	Serial interface TXD+	green
6		Analog ground	blue
7		Supply voltage -	white
8		Supply voltage +	brown

Pin assignment half duplex/analog interface:

1		Analog interface A	pink
2	B	Serial interface RXD/TXD-	yellow
3		Control connection	red
4		Analog interface B	grey
5	A	Serial interface RXD/TXD+	green
6		Analog ground	blue
7		Supply voltage -	white
8		Supply voltage +	brown

Pin assignment SDI-12 interface:

1			pink
2		SDI-12 Data	yellow
3		SDI-12 activation	red
4			grey
5			green
6		SDI-12 GND, SDI-12 activation	blue
7		Supply voltage -	white
8		Supply voltage +	brown

**The connection cable screen must NOT be laid to ground in the control panel for *Ventus*!**

**The connection cable screen MUST be laid to ground in the control panel for V200A !**

The complete manual can be found under:

<http://www.lufft.com> / Support / Manuals / UMB-Technology / Manual Ventus-UMB

