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Астана (7172)727-132	Иркутск (395)279-98-46	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
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Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Кемерово (3842)65-04-62	Новокузнецк (3843)20-46-81	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
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Технические характеристики на дисплеи

MISCELLANEOUS DEVICES

Wind Display LED

Part number: 4.3251.xx.1xx

Indicates the wind direction in a circle of 72 LED luminous bars, and the speed by 7-segment-LEDs. Ship version with direction circle divided in red and green LED's according to port side and starboard.

Display of WS:

- instantaneous value

Display options of the WD:

- instantaneous value or delayed
- or
- instantaneous value and variation
- or
- delayed and variation

When using a suitable sensor electronics the display of the “true” wind values is possible.
A built-in RS-422-interface facilitates the connection of other wind indicators LED.



Specification

Part number: 4.3251.xx.1xx

Data output digital	
Data telegram	LED - Standard ULTRASONIC NMEA 0, NMEA 1
Output type	1x RS422 / RS485
Operating voltage	
Electronic	230 V / 50 Hz or 24 V AC or 12 ... 35 V DC
General	
Ambient temp.	-10 ... +50 °C
Electr. connection	screw terminal
Mounting	switch panel mounting
Protection	IP 23
Dimension	144 x 144 x 135 mm
Weight	1.5 kg
Data display	
Wind velocity	0 ... 99,9 / 0 ... 999 m/s or kt or km/h or Bft
Wind direction	0° ... 180 ° ... 0° 0 ... 360 °

Resolution wind speed	0.1 / 1
Resolution wind direction	5 °

Versions

As per 4.3251.xx.1xx, but:

Product number 4.3251.00.140

Data input analog	
Wind speed	0 ... 20 mA
Wind direction	0 ... 20 mA

Product number 4.3251.00.141

Data input analog	
Wind speed	4 ... 20 mA
Wind direction	4 ... 20 mA

Product number 4.3251.00.161

Data input analog	
Wind speed	0 ... 10 V
Wind direction	0 ... 10 V

Product number 4.3251.01.140

Data input analog	
Wind speed	0 ... 20 mA
Wind direction	0 ... 20 mA
Operating voltage	
Electronic	115 V / 50 Hz or 24 V AC or 12 ... 35 V DC

Product number 4.3251.01.141

Data input analog	
Wind speed	4 ... 20 mA
Wind direction	4 ... 20 mA
Operating voltage	
Electronic	115 V / 50 Hz or 24 V AC or 12 ... 35 V DC

Product number 4.3251.01.161

Data input analog	
Wind speed	0 ... 10 V
Wind direction	0 ... 10 V
Operating voltage	

Electronic	115 V / 50 Hz or 24 V AC or 12 ... 35 V DC
------------	--

Product number 4.3251.01.000

Operating voltage

Electronic	115 V / 50Hz or 24 V AC or 12 ... 35 V DC
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Product number 4.3251.00.000

Operating voltage

Electronic	230 V / 50Hz or 24 V AC or 12 ... 35 V DC
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Accessories

No accessories are available for this product.

MISCELLANEOUS DEVICES

Wind Display LED

Part number: 4.3250.xx.1xx

Indicates the wind direction in a circle of 72 LED luminous bars, and the speed by 7-segment-LEDs. In addition, the minimum and maximum wind speed values can be indicated by two other digit displays.

Display options of the WS:

- instantaneous value
- or
- 2 min. mean value and maximum value
- or
- 10 min. mean value and maximum value

Display options of the WD:

- instantaneous value
- or
- 2 min. mean value and variation
- or
- 10 min. mean value and variation

The calculation of the mean values and maximum values is carried out according to the ICAO. A built-in RS-422-interface facilitates the connection of other wind indicators LED:



Specification

Part number: 4.3250.xx.1xx

Data output digital

Output type	1x RS422 / RS485 ASCII protocol
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Data input digital

Wind speed	0 ... 1600 Hz or RS 422
Wind direction	Thies-serial-synchronous or RS422

Operating voltage

Electronic	230 V / 50 Hz or 24 V AC or 12 ... 35 V DC
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General

Ambient temp.	-10 ... +50 °C
Electr. connection	screw terminal
Mounting	switch panel mounting
Protection	IP 23
Dimension	144 x 144 x 135 mm
Weight	1.5 kg

Data display

Wind velocity	0 ... 99,9 m/s or kt or km/h or Bft
Wind direction	0 ... 360 °
Resolution wind speed	0,1 / 1
Resolution wind direction	5 °

Versions

As per 4.3250.xx.1xx, but:

Product number 4.3250.00.140

Data input analog

Wind speed	0 ... 20 mA
Wind direction	0 ... 20 mA

Product number 4.3250.00.141

Data input analog

Wind speed	4 ... 20 mA
Wind direction	4 ... 20 mA

Product number 4.3250.00.161

Data input analog

Wind speed	0 ... 10 V
Wind direction	0 ... 10 V

Product number 4.3250.01.140

Data input analog

Wind speed	0 ... 20 mA
Wind direction	0 ... 20 mA

Operating voltage

Electronic	115 V / 50 Hz or 24 V AC or 12 ... 35 V DC
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Product number 4.3250.01.141

Data input analog

Wind speed	4 ... 20 mA
Wind direction	4 ... 20 mA

Operating voltage

Electronic	115 V / 50 Hz or 24 V AC or 12 ... 35 V DC
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Product number 4.3250.01.161

Data input analog

Wind speed	0 ... 10 V
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Wind direction	0 ... 10 V
Operating voltage	
Electronic	115 V / 50 Hz or 24 V AC or 12 ... 35 V DC

Accessories

No accessories are available for this product.

MISCELLANEOUS DEVICES

Wind Display LED

Part number: 4.3251.xx.0xx

Indicates the wind direction in a circle of 72 LED luminous bars, and the speed by 7-segment-LEDs. Ship version with direction circle divided in red and green LED's according to port side and starboard.

Display of WS:

- instantaneous value

Display options of the WD:

- instantaneous value or delayed
- or
- instantaneous value and variation
- or
- delayed and variation

When using a suitable sensor electronics the display of the “true” wind values is possible.
A built-in RS-422-interface facilitates the connection of other wind indicators LED.

Suitable wind transmitters:

4.3303.22.000 / 008
4.3125.32(33).100/101
4.3336.31(32).001
4.3820.xx.xxx



Specification

Part number: 4.3251.xx.0xx

Data output digital

Data telegram	LED - Standard ULTRASONIC NMEA 0, NMEA 1
Output type	1x RS422 / RS485

Data input digital

Wind speed	0 ... 1600 Hz or RS 422
Wind direction	Thies-serial-synchronous or RS422

Operating voltage

Electronic	230 V / 50 Hz or 24 V AC or 12 ... 35 V DC
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General

Ambient temp.	-10 ... +50 °C
---------------	----------------

Electr. connection	screw terminal
Mounting	switch panel mounting
Protection	IP 23
Dimension	144 x 144 x 135 mm
Weight	1.5 kg
Data display	
Wind velocity	0 ... 99,9 / 0 ... 999 m/s or kt or km/h or Bft
Wind direction	0° ... 180 ° ... 0° 0 ... 360 °
Resolution wind speed	0.1 / 1
Resolution wind direction	5 °

Versions

As per 4.3251.xx.0xx, but:

Product number 4.3251.00.001

Interface	
Type	1 x wind interface 6 x RS 422 in- and outputs

Product number 4.3251.00.002

Interface	
Type	1 x wind interface 6 x RS 422 in- and outputs 1 x input for air temperature sensor 1 x input for rel. humidity sensor

Product number 4.3251.01.001

Interface	
Type	1 x wind interface 6 x RS 422 in- and outputs

Operating voltage

Electronic	115 V / 50Hz or 24 V AC or 12 ... 35 V DC
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Product number 4.3251.01.002

Interface	
Type	1 x wind interface 6 x RS 422 in- and outputs 1 x input for air temperature sensor 1 x input for rel. humidity sensor

Operating voltage

Electronic	115 V / 50Hz or 24 V AC or 12 ... 35 V DC
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MISCELLANEOUS DEVICES

Wind Display LED

Part number: 4.3250.xx.0xx

Indicates the wind direction in a circle of 72 LED luminous bars, and the speed by 7-segment-LEDs. In addition, the minimum and maximum wind speed values can be indicated by two other digit displays.

Display options of the WS:

- instantaneous value
- or
- 2 min. mean value and maximum value
- or
- 10 min. mean value and maximum value

Display options of the WD:

- instantaneous value
- or
- 2 min. mean value and variation
- or
- 10 min. mean value and variation

The calculation of the mean values and maximum values is carried out according to the ICAO. A built-in RS-422-interface facilitates the connection of other wind indicators LED: Suitable wind transmitters:

4.3303.22.000 / 008
 4.3125.32(33).100
 4.3336.31(32).000
 4.3352.00(10).000
 4.3151.00(10).000
 4.3820.xx.xxx
 4.3519.00.000
 4.3129.00.000
 4.3129.60.000

Specification

Part number: 4.3250.xx.0xx

Data output digital

Output type	1x RS422 / RS485 ASCII protocol
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Data input digital

Wind speed	0 ... 1600 Hz or RS 422
Wind direction	Thies-serial-synchronous or RS422

Operating voltage



Electronic	230 V / 50 Hz or 24 V AC or 12 ... 35 V DC
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General

Ambient temp.	-10 ... +50 °C
Electr. connection	screw terminal
Mounting	switch panel mounting
Protection	IP 23
Dimension	144 x 144 x 135 mm
Weight	1.5 kg

Data display

Wind velocity	0 ... 99,9 m/s or kt or km/h or Bft
Wind direction	0 ... 360 °
Resolution wind speed	0,1 / 1
Resolution wind direction	5 °

Versions

As per 4.3250.xx.0xx, but:

Product number 4.3250.00.000

Data output digital

Interface	RS485 / RS422
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Product number 4.3250.00.040

Data output digital

Interface	RS485 / RS422
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Data output analog

Measured values	0 ... 20 mA
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Product number 4.3250.01.000

Data output digital

Interface	RS485 / RS422
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General

Power supply	115 V / 50Hz or 24 V AC or 12 ... 35 V DC
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Product number 4.3250.01.041

Data output analog

Measured values	4 ... 20 mA
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Operating voltage

Electronic	115 V / 50Hz or 24 V AC or 12 ... 35 V DC
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Product number 4.3250.01.061
Data output analog

Measured values	0 ... 10 V
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Operating voltage

Electronic	115 V / 50Hz or 24 V AC or 12 ... 35 V DC
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Product number 4.3250.00.041
Data output digital

Interface	RS485 / RS422
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Data output analog

Measured values	4 ... 20 mA
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Product number 4.3250.00.061
Data output digital

Interface	RS485 / RS422
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Data output analog

Measured values	0 ... 10 V
-----------------	------------

Product number 4.3250.00.073
Data output digital

Interface	RS485 / RS422
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Data output analog

Measured values	0 ... 5 V
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Product number 4.3250.01.073
Data output analog

Measured values	0 ... 5 V
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Operating voltage

Electronic	115 V / 50Hz or 24 V AC or 12 ... 35 V DC
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