

Wind Speed 4-20mA **Heating Integrated**



WST

Technical Data

Measuring range 0-40m/s, 0-50m/s or 0,75m/s

+/-0,5m/sAccuracy

Measuring principle non-contact, magnetic scanner

Start-up speed 0,4m/s <0,1m/s Resolution

Strength for wind speed of 80m/s

(max 30min)

0-100%rH

Signal availability max 2,5s

(from voltage-free state)

Permisible rel.humidity

Signal output 4-20mA, limited to 20,5mA Load resistor Rload <(Umin-9)/0,020hm =cable plus load resistor Umin=min.suplly voltage

Power Supply 24Vdc +50/-25%

reverse-polarity protection

Type of connection 5-pin plug (M12) or cable 5x0,7mm2, 3m long

-40°C...+70°C Ambient temperature range

Heating Automatic heater control Supply voltage 30Vac/dc ±20%, max 20VA **Protection class** IP64 for vertical mounting Steel tube mast 48mm Ø Mounting

min 37mm Ø interior

Tube mounting 2pcs wing screws

Material

aluminium Housing aluminium

Corrosion resistance seawater-resistant

Dimensions 60 x 115mm Weight Approx. 0,5kg

Air and creepage distnaces Insulation group C according

EN60664-1/ VDE0110

Features

- Robust and reliable industrial design
- 0-40m/s, 0-50m/s or 0-75m/s measurement
- Cable or Plug-in connection
- Low starting torques at high load capacity
- **Outstanding precision**
- Wear-free recording of measuring data
- Storm and weather-proof
- Optimised power requirement through electronic heater control
- Simple installation, as no tools required for mounting
- Extended temperature range
- Overvoltage protection Impact and vibration-resistant
- **UL/CSA** aaproval
- Maintanance free

Application

Wind speed transmitters are used for demanding recording of wind speed:

- crane installations
- ski lifts and cableways
- building management systems
- blind protection
- weather station
- scientific and research purposes
- wind power installations
- green house control
- in hydrology

Ordering Codes

WST 420P/040 Wind speed transmitter for mast or

bracket, **plug-in** connection 0-40m/s

WST 420C/040 Wind speed transmitter for mast or

bracket, cable connection 0-40m/s

WST 420P/050 Wind speed transmitter for mast or

bracket, plug-in connection 0-50m/s

WST 420P/075 Wind speed transmitter for mast or

bracket, plug-in connection 0-75m/s

WHT **Heat Transformer**

WPS Power Supply

LPH Lightning protection - Heater

LPO Lightning protection - Output 20mA

BPM Basic part for mounting a lightning

protection module

Automatikprodukter



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Function

The WST 420 vane anemometer records the current wind speed and converts it without contacting it into a linear output signal 4-20mA.

The sensor is designed to withstand storms and weather.

The installed, automatic heater control means it can be used down to -40C.

Evaluation is then performed separately over a measuring device, a display instrument or in the building engineering.

The unit can be mounted to the mast by the wing screws included.

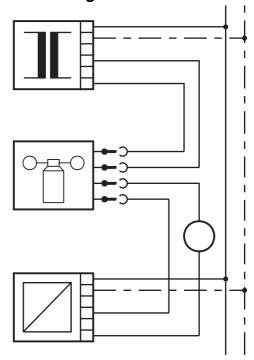
Note

Electrical connection to be conducted by skilled personal only.

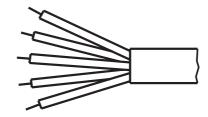
All valid standards for connecting electrical equipment must be observed.

To avoid any consequential damage or operation failure, through direct or indirect excitation in the event of lightning strikes, we recommend that a separate ltightning protection device be fitted by the customer.

Connection Diagram



Cable



Heating Transformer



Technical Data

Power supply 230Vac +/-10% 50VA

Output voltage 30Vac 30VA

Protection class IP54

 Dimension
 125 x 125 x75mm

 Weight
 approx.1,3kg (max 30min)

Plug-In

