



WDT

Features

- Robust and reliable industrial design
- 64 or 144 wind directions
- 4-20mA two-wire connection
- Low starting torques at high load capacity
- Outstanding precision
- Wear-free recording of measuring data
- Storm - and weather-proof
- Simple installation, as no tools required for mounting
- Extended temperature range
- Overvoltage protection
- Impact and vibration-resistant
- UL/CSA approval
- Maintenance free

Technical Data

Measuring range	64 or 144 stages
Accuracy	+/-5,625 or +/-2,5 degree
Measuring principle	non-contact, magnetic scanner
Start-up speed	0,4m/s
Strength	for wind speed of 80m/s (max 30min)
Signal availability	max 2,5s (from voltage-free state)
Permissible rel.humidity	0-100%rH
Signal output	4-20mA, limited to 20,5mA
Load resistor	$R_{load} < (U_{min}-9)/0,02ohm$
=cable plus load resistor	$U_{min} = \text{min. supply voltage}$
Power Supply	24Vdc +50/-25% reverse-polarity protection
Type of connection	5-pin plug (M12)
Ambient temperature range	-40°C...+70°C
Heating	Automatic heater control
Supply voltage	30Vac/dc ±20%, max 20VA
Protection class	IP64 for vertical mounting
Mounting	Steel tube mast 48mm Ø min 37mm Ø interior
Tube mounting	2pcs wing screws
Material	
Housing	aluminium
Vane	aluminium
Corrosion resistance	seawater-resistant
Dimensions	60 x 115mm
Weight	Approx. 0,5kg

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

WDT 64	Wind direction transmitter 64 wind directions plug-in connection
WST 144	Wind direction transmitter 144 wind directions plug-in connection
WHT	Heat Transformer
WPS	Power Supply 230Vac/24Vdc
LPH	Lightning protection - Heater
LPO	Lightning protection - Output 20mA
BPM	Basic part for mounting a lightning protection module



Function

The WDT 420 wind direction sensors record the current wind direction and convert it without contacting it into an analogue 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 lightning protection device be fitted by the customer.

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)