



Vaisala Ultrasonic Wind Sensor WMT700

| WMT 7 0 | | | | | | | | | | | | | | | | | | |
|---------|--------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------|---|--|----------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|---|
| 1 | Measurement range | 40 m/s WMT701 | 1 | | | | | | | | | | | | | | | |
| | | 40 m/s + Accredited Wind Calibration (WMT701) | A | | | | | | | | | | | | | | | |
| 2 | Temperature range | -10...+60 C | | A | | | | | | | | | | | | | | |
| | | -40...+60 C | | B | | | | | | | | | | | | | | |
| | | -55...+70 C | | C | | | | | | | | | | | | | | |
| 3 | Heating | Non-heated version | 1 | | | | | | | | | | | | | | | |
| | | Heated transducers | 2 | | | | | | | | | | | | | | | |
| | | Heated transducers and arms | 3 | | | | | | | | | | | | | | | |
| | | Heated transducers, arms and body | 4 | | | | | | | | | | | | | | | |
| 4 | Digital communication interface | RS-485 isolated | | A | | | | | | | | | | | | | | |
| | | RS-422 isolated | | B | | | | | | | | | | | | | | |
| | | RS-232 isolated | | C | | | | | | | | | | | | | | |
| | | SDI-12 isolated | | D | | | | | | | | | | | | | | |
| 5 | Digital communication profile | WMT70 - poll mode (default) | 9600b, 8, N, 1 Polled | | | | | | | | | | | | | | | |
| | | WS425 - ASCII | 2400b, 8, N, 1 Polled | | | | | | | | | | | | | | | |
| | | WS425 - NMEA Extended (v 0183) | 9600b, 8, N, 1 Auto send 1/s | | | | | | | | | | | | | | | |
| | | WS425 - SDI-12 (v 1.3) | 1200b, 7, E, 1 Polled | | | | | | | | | | | | | | | |
| | | WS425 - ASOS | 2400b, 8, N, 1 Polled | | | | | | | | | | | | | | | |
| | | ROSA - MES12 | 9600b, 8, N, 1 Polled | | | | | | | | | | | | | | | |
| | | AWSS20 - NMEA Extended (v 0183) | 4800b, 8, N, 1 Auto send 1/s | | | | | | | | | | | | | | | |
| 6 | Digital communication units | m/s | | A | | | | | | | | | | | | | | |
| | | knots | | B | | | | | | | | | | | | | | |
| | | mph | | C | | | | | | | | | | | | | | |
| | | km/h | | D | | | | | | | | | | | | | | |
| 7 | Analog output signals for wind speed channel | Disabled | | | | | | | | | | | | | | | | 0 |
| | | Voltage output | 100 mV/m/s | | | | | | | | | | | | | | | 1 |
| | | Current output | 4...20 mA (0...Range m/s) | | | | | | | | | | | | | | | 3 |
| | | Current output | 0.2 mA/m/s | | | | | | | | | | | | | | | 4 |
| | | Push-Pull frequency output | 10 Hz/m/s | | | | | | | | | | | | | | | 6 |
| | | WS425 - voltage output | 8 mV/mph | | | | | | | | | | | | | | | 7 |
| | | WS425 - frequency output (Push-Pull) | 5 Hz/mph | | | | | | | | | | | | | | | 8 |
| | | Pull up frequency output (PNP) | 10 Hz/m/s | | | | | | | | | | | | | | | A |
| | | Pull down frequency output (NPN) | 10 Hz/m/s | | | | | | | | | | | | | | | B |
| 8 | Analog output signals for wind direction channel | Disabled | | | | | | | | | | | | | | | | 0 |
| | | Voltage output | 20 mV/Deg | | | | | | | | | | | | | | | A |
| | | Current output | 50 uA/Deg | | | | | | | | | | | | | | | D |
| | | Current output 4...20 mA | 44.444 uA/Deg | | | | | | | | | | | | | | | E |
| | | Potentiometer output (WS425) | 0...Vref (Vref = external reference voltage from system) | | | | | | | | | | | | | | | F |
| 9 | Cable | None | | | | | | | | | | | | | | | | 1 |
| | | Cable 2 m, cable connector, open leads on one end | | | | | | | | | | | | | | | | 2 |
| | | Cable 10 m, cable connector, open leads on one end | | | | | | | | | | | | | | | | 3 |
| | | MAWS cable 10 m | | | | | | | | | | | | | | | | 4 |
| | | AWSS20 cable 10 m, shield connected to PE pin | | | | | | | | | | | | | | | | 5 |
| | | Adapter cable for WS425 serial | | | | | | | | | | | | | | | | 6 |
| | | Adapter cable for WS425 analog frequency output | | | | | | | | | | | | | | | | 7 |
| | | RS485 Cable 2 m, cable connector, open leads on one end | | | | | | | | | | | | | | | | 8 |
| | | RS485 Cable 10 m, cable connector, open leads on one end | | | | | | | | | | | | | | | | 9 |
| | | Adapter cable for WS425 analog voltage output | | | | | | | | | | | | | | | | A |
| | | AWSS20 cable 10 m, shield not connected to PE pin | | | | | | | | | | | | | | | | B |
| | | ROSA analog cable 10 m, cable connector, open leads on one end | | | | | | | | | | | | | | | | C |
| | | Junction Box with Cable 2meters | | | | | | | | | | | | | | | | D |
| | | Cable 15 m, cable connector, open leads on one end | | | | | | | | | | | | | | | | E |
| | | Cable 26 m, cable connector, open leads on one end | | | | | | | | | | | | | | | | F |
| 10 | Mounting adapter | Adapter 228869 only | | | | Standard adapter, no fix | | | | | | | | | | | | A |
| | | Adapter 228869 with WMT70FIX70 (suitable also for inverted mounting) | | | | Standard adapter with general purpose fix | | | | | | | | | | | | B |
| | | Adapter 228869 with WMT700FIX60-POM | | | | Standard adapter with plastic fix for 60 mm pole | | | | | | | | | | | | C |
| | | Adapter 228869 with WMT700FIX60-RST | | | | Standard adapter with stainless steel fix for 60 mm pole | | | | | | | | | | | | D |
| | | Adapter 228777 only (used for old WS425 FIX30/60) | | | | WS425 compatible adapter, no fix | | | | | | | | | | | | E |
| 11 | Power - Reserved for future purposes | None | | | | | | | | | | | | | | | | 1 |
| 12 | Accessories | None | | | | | | | | | | | | | | | | A |
| | | Bird cage | | | | | | | | | | | | | | | | B |
| 13 | Manual | None | | | | | | | | | | | | | | | | 1 |
| | | English | | | | | | | | | | | | | | | | 2 |
| | | Japanese | | | | | | | | | | | | | | | | 3 |
| | | Chinese | | | | | | | | | | | | | | | | 4 |
| | | Russian | | | | | | | | | | | | | | | | 5 |

For freezing conditions select appropriate combination of heating and temperature ranges.

Accessories

| | | |
|----------|------------------------------------------------------------------------------|-----------------|
| Tool | Verifier | WMT70Verifier |
| | Cable Tightener Tool | 237888SP |
| Bird | Bird cage | WMT70BirdKit |
| | Bird perch | WS425BirdPerch |
| Cable | Cable connector | WMT70Conn |
| | Cable 2 m, cable connector, open leads on one end | 227567SP |
| | Cable 10 m, cable connector, open leads on one end | 227568SP |
| | Cable 15 m, cable connector, open leads on one end | 237890SP |
| | Cable 26 m, cable connector, open leads on one end | 237889SP |
| | RS485 Cable 2 m, cable connector, open leads on one end | 228259SP |
| | RS485 Cable 10 m, cable connector, open leads on one end | 228260SP |
| | MAWS cable 10 m | 227565SP |
| | AWSS20 cable 10 m, shield connected to PE pin | 229807SP |
| | AWSS20 cable 10 m, shield not connected to PE pin | 227566SP |
| | ROSA analog cable 10 m, cable connector, open leads on one end | 231425SP |
| | Adapter cable for WS425 serial | 227569SP |
| | Adapter cable for WS425 analog frequency output | 227570SP |
| | Adapter cable for WS425 analog voltage output | 227571SP |
| | Junction Box with Cable 2meters | ASM210719SP |
| Mounting | WMT700 Mounting Accessories: | |
| | Adapter for FIX70 | 228869 |
| | Fix70 (suitable also for inverted mounting) | WMT70FixSP |
| | Mounting adapter 60mm POM | WMT700FIX60-POM |
| | Mounting adapter 60mm RST | WMT700FIX60-RST |
| | Cross-arm (40x40x850mm) | WMT70CROSSARM |
| | WS425 Mounting Accessories: | |
| | Adapter for old WS425 FIX30/60 | 228777 |
| | FIX30 | WS425Fix30 |
| | FIX60 | WS425Fix60 |
| | Sensor support arm for 60mm pole (655mm with integrated fix for item 228777) | WAC425 |