VAISALA

Vaisala Ultrasonic Wind Sensor **WMT700**

| | WMT 7 0 | | | 1 1 | | | | | | | | | 1 |
|----|--------------------------------------------------------------------------------------|------------------------------------------------|----------------------|----------------------------|--------|---|----------|---|--------|--------|---|---|--------|
| 1 | Measurement range | | | | | | | | | | | | |
| ' | 65 m/s WMT702 | 2 | | | | | | | | | | | |
| | 65 m/s + Accredited Wind Calibration (WMT702 | | | | | | | | | | | | |
| 2 | Temperature range | / | | | | | | | | | | | |
| | -10+60 C | | A | | | | | | | | | | |
| | -40+60 C | | В | | | | | | | | | | |
| | -55+70 C | | С | | | | | | | | | | |
| 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 | | | В | | | | | | | | | |
| | RS-232 isolated SDI-12 isolated | | | C D | | | | | | | | | |
| 5 | Digital communication profile | | | U | | | | | | | | | |
| Ŭ | WMT70 - poll mode (default) | 9600b, 8, N, 1 Polled | d | | 0 | | | | | | | | |
| | WS425 - ASCII | 2400b, 8, N, 1 Polled | | | 1 | | | | | | | | |
| | WS425 - NMEA Extended (v 0183) | 9600b, 8, N, 1 Auto s | send 1/s | | 2 | | | | | | | | |
| | WS425 - SDI-12 (v 1.3) | 1200b, 7, E, 1 Polled | | | 3 | | | | | | | | |
| | WS425 - ASOS | 2400b, 8, N, 1 Polled | | | 4 | | | | | | | | |
| | ROSA - MES12 AWS520 - NMEA Extended (v 0183) | 9600b, 8, N, 1 Polled 4800b, 8, N, 1 Auto s | | | 5 8 | | | | | | | | |
| 6 | Digital communication units | -0000, 0, N, 1 Auto S | 3010 1/3 | | U | l | | | | | | | |
| Ĭ | m/s | | | | | А | | | | | | | |
| | knots | | | | | В | | | | | | | |
| | mph | | | | | С | | | | | | | |
| 7 | km/h | | | | | D | I | | | | | | |
| 7 | Analog output signals for wind speed channel Disabled | | | | | | 0 | | | | | | |
| | Voltage output | 100 mV/m/s | | | | | 1 | | | | | | |
| | Current output | | 0Range 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 B | | | | | | |
| 8 | Pull down frequency output (NPN) Analog output signals for wind direction channel | 10 Hz/m/s | | | | | В | | | | | | |
| Ū. | Disabled | | | | | | | 0 | | | | | |
| | Voltage output | 20 mV/Deg | | | | | | A | | | | | |
| | Current output | 50 uA/Deg | | | | | | D | | | | | |
| | Current output 420 mA | 44.444 uA/Deg | | o from ovetom | | | | E | | | | | |
| 9 | Potentiometer output (WS425) Cable | 0Vref (Vref = extern | mai reference voltag | e nom system | 1) | | | Г | | | | | |
| Ũ | None | | | | | | | | 1 | | | | |
| | Cable 2 m, cable connector, open leads on one | | | | | | | | 2 | | | | |
| | Cable 10 m, cable connector, open leads on one | e end | | | | | | | 3 | | | | |
| | MAWS cable 10 m | | | | | | | | 4 | | | | |
| | AWS520 cable 10 m, shield connected to PE pil Adapter cable for WS425 serial | I | | | | | | | 5 6 | | | | |
| | Adapter cable for WS425 senal | ut | | | | | | | 7 | | | | |
| | RS485 Cable 2 m, cable connector, open leads | | | | | | | | 8 | | | | |
| | RS485 Cable 10 m, cable connector, open leads | | | | | | | | 9 | | | | |
| | Adapter cable for WS425 analog voltage output | | | | | | | | A | | | | |
| | AWS520 cable 10 m, shield not connected to Pl | | | | | | | | В | | | | |
| | ROSA analog cable 10 m, cable connector, ope Junction Box with Cable 2meters | neads on one end | | | | | | | C D | | | | |
| | Cable 15 m, cable connector, open leads on one | end | | | | | | | E | | | | |
| | Cable 26 m, cable connector, open leads on one | | | | | | | | F | | | | |
| 10 | Mounting adapter | | | | | | | | | | | | |
| | Adapter 228869 only | - for inverted | | Standard ad | | | mana fl. | | | A | | | |
| | Adapter 228869 with WMT70FIX70 (suitable als Adapter 228869 with WMT700FIX60-POM | o for inverted mounting) |) | Standard ad Standard ad | | | | | | B C | | | |
| | Adapter 228869 with WMT700FIX60-POM Adapter 228869 with WMT700FIX60-RST | | | Standard ad | | | | | | D | | | |
| | Adapter 228777 only (used for old WS425 FIX3 | 0/60) | | WS425 com | | | | | | E | | | |
| 11 | Power - Reserved for furture purposes | | | | | | | | | | | | |
| 40 | None | | | | | | | | | | 1 | | |
| 12 | Accessories None | | | | | | | | | | | А | |
| | Bird cage | | | | | | | | | | | В | |
| 13 | Manual | | | | | | | | | | | | - |
| | None | | | | | | | | | | | | 1 |
| 1 | English | | | | | | | | | | | | 2 3 |
| 1 | lananasa | | | | | | | | | | | | |
| | Japanese | | | | | | | | | | | | |
| | Japanese Chinese Russian | | | | | | | | | | | | 4 5 |

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

Accessories Tool

- Verifier Cable Tightener Tool Bird cage Bird perch Bird
- Cable Cable connector Cable 2 m, cable connector, open leads on one end

WMT70Verifier 237888SP

WMT70BirdKit WS425BirdPerch

WMT70Conn 227567SP

| | Cable 2 m, cable connector, open leads on one end | 22/00/01 |
|----------|------------------------------------------------------------------------------|-----------------|
| | 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 |
| | AWS520 cable 10 m, shield connected to PE pin | 229807SP |
| | AWS520 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: | |
| Wounting | 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 |
| | | |