

**Vaisala Ultrasonic Wind Sensor
WMT700**

WMT 7 0																		
1	Measurement range	40 m/s WMT701	1															
		65 m/s WMT702	2															
		75 m/s WMT703	3															
		90 m/s WMT704	4															
		40 m/s + Accredited Wind Calibration (WMT701)	A															
		65 m/s + Accredited Wind Calibration (WMT702)	B															
		75 m/s + Accredited Wind Calibration (WMT703)	C															
		90 m/s + Accredited Wind Calibration (WMT704)	D															
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						0									
		WS425 - ASCII	2400b, 8, N, 1 Polled						1									
		WS425 - NMEA Extended (v 0183)	9600b, 8, N, 1 Auto 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	9600b, 8, N, 1 Polled						5									
		US AWOS - NMEA Standard	2400b, 8, N, 1 Autosend 5/s						6									
		FAA - Federal	9600b, 8, N, 1 Polled						7									
		AWS520 - NMEA Extended (v 0183)	4800b, 8, N, 1 Auto send 1/s						8									
		Low power mode for AWS310	9600b, 8, N, 1 Polled						9									
		MARINE 1 - NMEA Extended (v 0183)	4800b, 8, N, 1 Auto send 1/s						A									
		MARINE 2 - NMEA Standard (v 0183)	4800b, 8, N, 1 Auto send 1/s						B									
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						WMT70Cable1										2
		Cable 10 m, cable connector, open leads on one end						WMT70Cable2										3
		MAWS cable 10 m						WMT70Cable3										4
		RS485 Cable 2 m, cable connector, open leads on one end						WMT70Cable8										8
		RS485 Cable 10 m, cable connector, open leads on one end						WMT70Cable9										9
		Junction Box with Cable 2meters						WMT70Cable12										D
		Cable 15 m, cable connector, open leads on one end						WMT70Cable13										E
		Cable 26 m, cable connector, open leads on one end						WMT70Cable14										F
		Hybrid cable 2 m, cable connector, open leads on one end						WMT70Cable15										G
		Hybrid cable 10 m, cable connector, open leads on one end						WMT70Cable16										H
		Hybrid cable 15 m, cable connector, open leads on one end						WMT70Cable17										J
		Hybrid cable 26 m, cable connector, open leads on one end						WMT70Cable18										K
10	Mounting adapter	Adapter 228869 only						Standard adapter, no fix										A
		Adapter 228869 with WMT70FIX70						Standard adapter with general purpose fix										B
		Adapter 228869 with WMT700FIX60-MARINE						Marine adapter with stainless steel 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
		Adapter 228777 with WS425FIX60						WS425 compatible adapter with WS425FIX60										F
		Adapter 228869 with ASM212140 (suitable for 4258057 mounting)						ASOS mounting adapter										G
		Adapter 228777 with WAC425 (suitable for inverted mounting)						Adapter with sensor arm for 60mm pole										H
		Adapter 228869 with ASM214411						Standard adapter with stainless steel fix for 50 mm pole										J
11	Power - Reserved for future purposes	None																1
12	Accessories	None																A
		Bird cage						WMT70BirdKit										B
13	Manual	None																1
		English																2
		Japanese																3
		Chinese																4
		Russian																5
		DEIF																6
		French																7
		Spanish																8

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

Accessories

Tool	Verifier	WMT70Verifier
Bird	Bird cage	WMT70BirdKit
	Bird perch	WS425BirdPerch

Cable	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
	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
	Junction Box with Cable 2meters	ASM210719SP
	WMT700 USB service cable	240855
	Universal USB service cable with screw terminal for RS485 or RS232	240884
	Hybrid cable 2 m, cable connector, open leads on one end	CBL210706-2MSP
	Hybrid cable 10 m, cable connector, open leads on one end	CBL210706-10MSP
	Hybrid cable 15 m, cable connector, open leads on one end	CBL210706-15MSP
	Hybrid cable 26 m, cable connector, open leads on one end	CBL210706-26MSP
Mounting	WMT700 Mounting Accessories:	
	Adapter for FIX70	228869
	Fix70 (suitable also for inverted mounting)	WMT70FixSP
	Mounting adapter 60mm POM	WMT700FIX60-POMSP
	Mounting adapter 60mm RST	WMT700FIX60-RSTSP
	Cross-arm (40x40x850mm)	WMT70CROSSARM
	Mounting adapter between 228869 and 4258057	ASM212140
	Mounting adapter 50mm RST	ASM214411
	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
Power	Outdoor AC (mains) power supply for arm heated and fully heated WMT700	PJB480
Display	Wind display XDi-N 144 (5" display) for ship navigation	252307
	Wind display XDi-N 192 (7" display) for ship navigation	252321