

TSTWP2000FATR01

WP2000 Final Acceptance Test Form

Technician	Date	WP S/N	RMA#
P.G.	Nov 6, 2020	1361	32759

Test Equipment					
Device	S/N	Calibration Due Date			
Temp/RH Reference	J2910005	Dec 3 2020			
Barometric Pressure Reference	69042	4/22/2021			
RF wattmeter w/10W 400-1000 MHz element	247593	2/21/11			
Zenosoft Version:	V2.02 Sep 10 2002 11:29:41 CS B97B				

Equipped Sensors					
Sensor	Model	S/N			
WS/WD	Gill Windsonic 1	09470040			
Compass	Navico	32 1.00 10			
Air Temp / RH	Vaisala HMP60				
Barometric Pressure	Honeywell PPT (analog i/f)	27051			

	High Curre	nt Drain Test		
*All sensors and radio	connected, no term	minal.		
Current W/Radio (mA)	Limit	Current No Radio (mA)	Limit	Pass?
N/A	750mA – 1000mA	130	<240mA	⊠ Pass

Time Zone
GMT
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Wi	nd Speed and Direction	
Model	Test Form	Pass?
Gill Windsonic 1	TSTWINDSONICR01	⊠ Pas
Verify sensor fun	ctions when connected to Weatherpak	⊠ Pas

	Compass					
Model: Navico						
Table	Clockwise	Counter-Clockwise	Limits	Pass?		
0	0	0	357-3	⊠ Pass		
60	61			⊠ Pass		
120	121	121		⊠ Pass		
180	179			⊠ Pass		
240	240	240	±3°	⊠ Pass		
300	300			⊠ Pass		
360	0	0		⊠ Pass		

			Temp/	RH	bwar i			
Model:		As Received					Returned	
Vaisala HMP60	Ref	WP	Limits	Pass?	Ref	WP	Limits	Pass?
Temperature (°C)	24.6	24.7	±.6°C	⊠ Pass	23.6	23.8	±.6°C	⊠ Pass
Rel Humidity (%)	18.8	18.7	±3%	⊠ Pass	17.2	16.5	±3%	⊠ Pass
Work performed:	None, se	nsor was	within spec	ifications				2 1 433

		Baro	metric F	ressure	9			
Model:		As Received			As Returned			
Honeywell PPT (analog i/f)	Ref	WP	Limits	Pass?	Ref	WP	Limits	Pass?
Pressure (mBar)	865.30	865.53	±0.6mB	⊠ Pass	865.30	865.53	±0.6mB	⊠ Pass
Work Performed:	None, se	nsor was v	vithin speci					<u> </u>

	Radio 7	Test (N/A)		
Tx Power (W)	Limit (W)	Reflected Power (W)	Limit (W)	Pass?
N/A	1.6 - 2.0	N/A	<.1W	□ N/A
		Tx Power (W) Limit (W)	Tentetta I over (v)	Tx Power (W) Limit (W) Reflected Power (W) Limit (W)

		Display (N/A)	
S/N	N/A		Poss 2
Default WP S/N	N/A	See Attached Document if Applicable	Pass?

	Tower (N/A)		
	Test Requirement	Remarks	Pass?
Tower Battery Voltage	Voltage levels are 13.0V-13.9V		□ N/A
Buzzer Operation	Buzzer sounds.		
Diode Check	14.5V - 15.0V		
Up-light Test On	Light on w/ WPAK connected.		
Up-light Test Off	Light off w/ WPAK removed		

Quick Release Test	
	Pass?
Check fit and condition of 17-Pin Connector / Quick Release	⊠ Pass

	GPS	(N/A)	
	WP	Limits (Logan UT)	Pass?
Latitude	N/A	4145.xxx	□ N/A
Longitude	N/A	-11151.xxx	□ N/A

Parameters As Shipped		
BP Offset (mBar)	Compass Offset (°)	Unit ID
220.63	0	1361

	Evaluation		
All	steps must be compl	eted and all tests must be passed.	
Technician			
TZ	November 11, 2020	All steps passed. All settings returned as received.	



TSTWINDSONICR01

	Gill WindSonic	Sensor Test	
Technician	Date	S/N	RMA#

	Test Equipment	
Device	S/N	Calibration Due Date
Power Supply w/ current limit	N/A	N/A
Host System (Zeno or Weatherpak)	1361	N/A

Sensor Communication Formats				
Option 1	Option 2	Option 3	Option 4*	Baud Rate
				9600
* Option 4 is used	in older sensors	s for SDI-12 comms		

	Customer Requirements		
Unit of Measurement:	[⋈ M/S] [☐ Knots] [☐ MPH] [☐ KPH] [☐ FPM]		

Bench Test

Couple the WindSonic to the host system and power supply using a known working test cable. Use the terminal and record the configuration by going into Configuration mode and using the D3 command. See Manual Section 10.3 Checking the configuration for more information.

A typical configuration looks like: M2,U1,O2,L1,P3,B3,F1,H1,NQ,E3,T1,S3,C1,

Configuration: M2,U1,O2,L1,P3,B3,H1,NQ,F1,E3,T1,S4,C2,G0,K50,

Check for normal output data, and that the Status Code is OK - OO (or A for NMEA format). If the status code is other than OO, refer to Manual Section 12.5 Status (error) codes for more information.

Item	Value	Limit	Remarks	Pass?
Status Code	00	OK [00 -or- A]		⊠ Pass
17 551 6	1 10			ا ا

Use an office fan or similar to check that the unit is sensing wind, turning the unit to simulate changing wind direction and to check that both axes are functioning.

*Note: This a quick functional test. There are no calibration adjustments; the unit is designed NOT to require re-calibration within its lifetime.

Item	Value	Limit	Remarks	Pass?
Changing wind direction	Changes	Direction must change		⊠ Pass

Bench Test (continued)

Self-Test (Still Air). This test checks Alignment, Gain and Checksums.

Alignment tests: The unit performs a transducer geometry check and compares the result with its factory setting.

Gain tests: The unit performs a check of its operating gain against its factory setting.

Checksum tests: The unit performs a check of its program and data memory. *Note: This test is a stringent laboratory test which will only be passed if carried out under still air conditions at room temperature $(17-23\,^{\circ}\text{C})$.

Use the original packing box (inner and outer) to enclose the unit. (The packaging was designed as a zero wind enclosure). Go into Configuration Mode * ENTER. Carry out the Self-test by entering D 6 ENTER. A message similar to that shown below in the table will be generated. For each of the Alignment and Gain tests a Pass or Refer to Manual message is generated. For each of the Checksum tests a Pass or Fail message is generated (except the first message "Alignment Limit:")

Item	Value	Limit	Remarks	Pass?
ALIGNMENT LIMITS:0D59,0CF5	N/A	PASS	ACCINICAL INS	⊠ Pass
ALIGNMENT U:OD15 *PASS*	PASS	PASS		⊠ Pass
ALIGNMENT V:OD16 *PASS*	PASS	PASS		⊠ Pass
CHECKSUM ROM: AB7D AB7D *PASS*	PASS	PASS		⊠ Pass
CHECKSUM FAC:04F4 04F4 *PASS*	PASS	PASS		⊠ Pass
CHECKSUM ENG:082A 082A *PASS*	PASS	PASS		⊠ Pass
CHECKSUM CAL:A9C1 A9C1 *PASS*	PASS	PASS		⊠ Pass

If any of the tests fail, contact your supplier. If a "refer to manual" message appears please see Section 12.3 Fault Finding. Note that it will only pass if the specified temperature and zero wind conditions are met. Check that there are no visible obstructions or damage to the unit before contacting Gill or your authorized distributor for further advice.

Evaluation		
All	steps must be compl	eted and all tests must be passed.
Technician	Date	Remarks
TZ	November 11, 2020	All steps passed.